

# techvashni

FOR EVERYTHING AIIT

*An Initiative by AIITians*



**SAP**

**CISCO Networking**

**Artificial Intelligence**

**IoT & Sensor Networking**

**Block Chain & Data Security**

**Data Science & Machine Learning**

**Research Labs at  
Amity Institute of  
Information Technology**

# EDITORS'S DESK

Amity is the Research and Innovation driven university. Amity Institute of Information Technology has always been working on great ideas, cutting edge technologies and driving the trend through its research for the benefit of students, research scholars, faculty members and also associated academicians across the globe. The vision of Hon'ble Founder President, Dr. Ashok Chauhan, to make India as knowledge super power. To achieve the vision, Technical Research Labs has been successfully setup in Amity Institute of Information Technology under the guidance of Director, Dr. Ajay Rana.

The labs has all required latest hardware, software and other support systems. The aim of these well established and fully equipped labs is to carry various research, development and problem solving analysis in the areas of Artificial Intelligence Modelling, Data Intelligence, Machine Learning, Natural Language Processing,, Robotics, and Internet of Things.

This Edition is focused to provide all the information about the each research lab, their vision, mission, objectives and offerings, which would take one more closer to their field of interest.

Through this Edition we invite all the academicians and researchers, great minds, thoughts and ideas across the globe to connect with us with a single aim to get knowledge together with the feeling of belongingness and help the world in better utilization of out box ideas for Information and Technology.

We also extend our hand with our best wishes to all the students, faculty members and industry experts associated with this great initiative.

Regards  
TECHASHI



**ASHISH SINGHAL**  
EDITOR IN-CHIEF  
TECHASHI



**ISHA GUPTA**  
MANAGING EDITOR  
TECHASHI

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## DR. AJAY RANA

DIRECTOR, AIIT

&

CHAIRPERSON, AUN  
RESEARCH LABS

Dear Esteemed Readers

Research and innovation are two foundation pillars of Amity Education Group. Amity Institute of Information Technology (AIIT) is committed to incorporate path breaking ideas, cutting edge technologies and latest research trends into academics and scholastic work for the benefit of students, research scholars, faculty members and other associated academicians across the globe. A series of multiple Guest Lectures, Seminars, Conferences FDPs, Hands – On training programs and Workshops are conducted continuously to keep the knowledge and intellectual base updated.

I still remember the moment of when Honorable President & Chancellor, Dr Atul K Chauhan Sir expressed his desire to do something new, revolutionary and research oriented at Amity Institute of Information Technology, Noida while giving its charge to me. With great confidence and expectations, I have been given charge to not only bring excellence at the Institute with world class delivery and students development but at the same time to establish various Research Labs/ Centre of Excellence/ Industry Oriented Labs at the Institute.

In this effort to achieve excellence in research and innovation and to meet the expectations of Honorable President & Chancellor, Dr Atul K Chauhan Sir, I feel humble and delighted to share that Amity Institute of Information Technology has established dedicated labs in the leading field of technologies, titled as Centre of Excellence – “Amity University Network- Research Labs.”

### Artificial Intelligence (AI)

AUN-AI is a vibrant community of inventive problem solvers with members including students, scholars, researchers and academicians. Here we nurture the careers of all our members—students, faculty, and staff—emphasizing service, collegiality, mentorship, and self-improvement. We take pride in imagining the impossible and then looking for ways to make it possible!

### Data Science

AUN - Data Science and Machine Learning Lab is unique in its interdisciplinary design where you will learn how data science and analytics can improve decisions throughout an organization's value chain, understand how recommendations lead to tangible actions through prescriptive analytics techniques, gain a good understanding of methods used in building such data-driven models, and acquire hands-on experience with analytics tools that are widely used in practice.

### Internet of Things

AUN – IOT & Sensor Network Lab focuses on the need to adopt innovative IoT based solutions in the near future to improve the productivity in day-to-day life. Today most of the networks service human to human interactions. In the near future there will be thrust on machine to machine communication and this will lead to a connected world of things.

### Block chain

The objective of this lab is to develop technologies that can secure, defend and respond to threats within our country's information, distribution and network systems. It should provide high-impact solutions to some of today's most challenging cybersecurity problems and develop far-reaching, high-risk, high-payoff cyber technologies to respond to future threats.

### CISCO

AUN – CISCO Lab allows individuals to gain practical networking experience that helps them prepare for information and communication technology (ICT) careers. It delivers a comprehensive, 21st century learning experience to help students develop the foundational ICT skills needed to design, build, and manage networks, along with career skills such as problem solving, collaboration, and critical thinking.

### SAP

Enables faculty to bring SAP software and SAP University Alliances curriculum into classrooms and academic research, to better prepare the next generation designers, developers, data scientists, makers, entrepreneurs and business leaders for the exponential enterprise. It aims to develop critical skills for digital futures among academics, university students and young thinkers, and to build the bridge to executives and professionals.

The labs are well established and fully equipped with all the required latest hardware, software and other support systems. The aim of these labs is to promote and initiate research work in the areas of Artificial Intelligence Modelling, Problem Solving, Decision Making, Data Intelligence, Machine Learning, Natural Language Processing, Computer Vision, Robotics, Optimization Techniques, Internet of Things enabled solutions and other related fields.



Our strong conviction is to help and motivate students, scholars, researchers and academicians to create and nurture projects with large societal impact and to develop services to benefit billions of people. A dedicated team of expert faculty members, honorary professors, collaborated international universities and industry partners is available to guide the work.

I invite and encourage all the academicians and researchers in the fraternity across the globe to connect with us with a common vision to attain knowledge together and help the world be a better place with use of technology and science.

I also take this opportunity to extend my warm wishes to all the associated members for their efforts in this endeavor.

**Regards**

**Dr. Ajay Rana**

## FROM THE DEPUTY DIRECTOR'S DESK

**DR. LAXMI AHUJA**



I would like to express my sincere appreciation to our Director Prof. (Dr.) Ajay Rana for contributing time and ideas to make AUN Research Lab productive and stimulating.

Its only under your dynamic leadership and dedication towards the AUN Research Lab that AIIT could take the AUN Research Lab to new heights of success. I believe we can make a significant contribution to these labs. Your valuable suggestions, comments and guidance encourage us to put more efforts for making it research oriented. Your deep insights helped us at various stages for establishing strong roots of the labs. I wish all the success for these labs.

**Dr. LAXMI AHUJA**

**Deputy Director**

## FROM THE ASSISTANT DIRECTOR'S DESK

**DR. SAPNA SINHA**



Amity University is a research driven university, which aims to present high quality research work. The vision of hon. founder president Dr. Ashok K Chauhan, Chancellor Dr. Atul Chauhan to make India as knowledge super power, under the guidance of Hon. Vice chancellor madam Dr. Balvinder Shukla and Head of the Institution, AIIT Dr. Ajay Rana to achieve the vision research labs has been setup in AIIT (Amity Institute of Information Technology). The labs will provide conducive environment and platform to collaborate research work in the area of IoT & Sensors, Data Science & Machine Learning, Artificial Intelligence, SAP, Block chain and CISCO networking. The established research labs will file patent, publish research paper and develop solutions for research problems. Many students, researchers from academia and industry will be benefited by it, i wish best of luck for the success of research labs under Amity University Network.

**Dr. SAPNA SINHA**

**Asst. Director**



## DR. SARIKA JAIN

**ASSOCIATE PROFESSOR,**  
AMITY INSTITUTE OF INFORMATION TECHNOLOGY  
&  
**HEAD, AUN RESEARCH LABS**

With the august blessings of our hon'ble Founder President Sir Dr. Ashok K Chauhan, it brings us great confidence and pride in sharing the establishment of six new state of the art Research Labs in Amity Institute of Information Technology, Amity University, Noida under the erudite leadership of Prof. Dr. Ajay Rana. These research labs shall facilitate opening of newer horizons in the field of Artificial Intelligence, Machine Learning and other cognitive computing technologies. The continuous support of our hon'ble Chancellor Dr. Atul K Chauhan has immensely helped paved the path of this arduous and treacherous undertaking.

In a recent visit to the Amity University Dubai, I was presented with opportunities to establish collaborative research partnerships with the delegates and colleagues from the esteemed Open University of London. Our work in the field of Artificial Intelligence, Machine Learning and Data Science was highly acclaimed and appreciated in the forum, this created an ever increasing trust in the research capabilities at the Amity University and enabled newer avenues of technical collaborations strengthening our research based partnerships even more with the Open University, London. Later that year group of delegates from Open University, London visited our Data Science Lab here at Amity Institute of Information Technology, which helped widen our collaborative diaspora and germinated newer areas of applied Artificial Intelligence and Data Science.

Recently, our Founder President Sir, during our visit to the 1<sup>st</sup> Convocation at the Amity University, Kolkata, shared his passion and faith in our vision and inspired us to take on this new mission christened "Mission Synergy". He also encouraged us to tread newer heights in the niche field of Artificial Intelligence, Machine Learning and Data Science.

Hon'ble Founder President bestowed us with his umpteenth vision towards the aim for calibrating exponential growth for the Amity Group and channelizing a "force multiplier" effect to increase effectiveness and excellence of our Academic and Research contributions by sharing his visionary perspectives, experiences and knowledge, motivating us to working as one cohesive unit and stride forward.

Following the inspirations provided by our founder Sir, with the blessings of Prof. M. S. Prasad (Director, Amity Institute of Space Science & Technology) and enablement of Prof. Dr. Ajay Rana (Director, Amity Institute of Information Technology), 6 brand new state of the art Research Labs have been established in the field of Data Science & Machine Learning, Artificial Intelligence, IOT and Sensor Network, Blockchain & Data Security, CISCO technologies and SAP.

# RESEARCH LAB

## IoT and Sensor Network



**Dr. ALKA CHAUDHARY**  
Assistant Professor  
Head,  
AUN IoT and Sensor Network  
Lab

IoT represents a vision in which the internet extends into the real world embracing everyday objects. Physical items are no longer disconnected from the virtual world, but can be controlled remotely and can act as physical access points to Internet services. The IoT vision is grounded in the belief that the steady advances in microelectronics, communications and information technology witnessed in recent years will continue into the foreseeable future. "Smart" objects play a key role in the IoT vision, since embedded communication and information technology have the potential to revolutionize the utility of these objects. Using sensors, they are able to perceive their context and via built-in networking capabilities they would be able to communicate with each other, access Internet services and interact with people. The IoT lab aims to spread the IoT among the students/researchers and to create a competitive industry required IoT skill in them.

AUN IoT and Sensor Network is research lab at Amity Institute of Information Technology, Amity University Uttar Pradesh, Noida India. IoT Lab is a research platform exploring the potential of crowdsourcing and Internet of Things for multidisciplinary research with more end-user interactions. The future of IoT research will require closer interactions between the researchers and the society in order to better address societal needs and challenges, including end-user acceptance. This will require new approaches for experimentation that will become more pervasive, leaking out from the labs into the real world. IoT Lab will serve this future by contributing to pave the way to new experimental approaches.

## VISION

Students and researchers can utilize our IoT test bed available in IoT lab to get hands on exposure on IoT platform. This IoT testbed is an open and developing ecosystem of edge devices, communication protocols, cloud-based platforms and applications with a focus on cost effective IoT technologies. To impart employability skills to students to extend not just to academic programs but also careers and student's future to bring into focus the application oriented training.

## MISSION

To bridge the gap between industry's requirement & student's skill set, To rewrite the programs' course content, such that it matches the skilled personnel requirement of companies.

## OBJECTIVE

- To spread the IoT among the students/researchers and to create a competitive industry required IoT skill in them.
- Our main focus is to develop a well-equipped laboratory that will support researcher providing facilities to be compatible with the outside world in the areas of IoT.
- To provide solutions to unsolved problems in the area of IoT to industry & Academia.

- To provide consultancy in various application areas related to IoT such as healthcare, Business many more.
- To train the persons from industry and academia through summer schools and training programs.
- To bridge the gap between academic and industry through research collaborations.

## TEAM MEMBERS



**Dr. Komal Saxena**  
Assistant Prof.  
Amity Institute of Information  
Technology



**Lt Col Santosh Khadsare**  
Scientist E  
Digital Forensics Lab, New Delhi



**Dr. Sandeep Mathur**  
Assistant Prof.  
Amity Institute of Information  
Technology



**Mr. Ram Bhushan Agnihotri**  
Assistant Prof.  
Amity Institute of Information  
Technology

### STUDENT MEMBERS

Mr. Bhavesh Gupta	Mr. Sumin Symol
Mr. Rishabh Jain	Mr.Dinesh Choudhary
Mr. Amit Sharma	Mr.Divyam Gupta
Mr. Osheen Bindroo	Mr. Sumit Yadav
Mr. Ajay Dhaiya	Mr.Rajat Kandpal

## Activities Under AUN IoT & SENSOR NETWORK

### ⇒ Consultancy

Associate with each lab and some companies which take consultancy services.

### ⇒ Research

All the research problems / topics of research which are running or completed in our lab and associated team members and other persons involved.

### ⇒ Training Program

This training is through lecture series and lectures are also uploaded on the YouTube under channel: AUN Labs

Link: <https://www.youtube.com/channel/UCI7MKUchUMNXMp0-0IGFFMg>

### ⇒ Summer School

Prepare on specialized course structure and syllabus for running 5-7 days summer school by our team and other speakers from academia and industry.



# RESEARCH LAB

## DATA SCIENCE & MACHINE LEARNING



**Dr. MAYANK SHARMA**  
Assistant Professor  
Head,  
AUN Data Science & Machine  
Learning Lab

Research is the way of life and driving force for academic institutions and universities. Data science and machine learning are contemporary area of research which re-enforce the domain of artificial intelligence, data analytics, data modelling and IoT. Amity institute of Information Technology under Amity University Uttar Pradesh, recently established the Data Science & Machine Learning Lab with the objective of strategic coordination of Research and Intellectual Properties associate with it. This lab will continue to support advanced research in order to make the next leap forward as a research university in the future and leading the institute towards self-sustainability.

Data Sciences and Machine Learning Lab (DSML) is research lab at Amity Institute of Information Technology, Amity University Uttar Pradesh, Noida India. It is dedicated laboratory echoing research and consultancy in the area Data analytics, Data visualisation, Statistical and Machine learning. Industrial consultancy projects, Academics and Industrial Training programs are also major outcomes. We are blessed with best human support from national, international universities, other research labs and industry working in joyful environment that reflects our values of real research and innovation.

## VISION

AUN Data Science and Machine Learning lab is to establish the institution in the research domain of data sciences, while implementing best international practice through quality research, consultancy and product development.

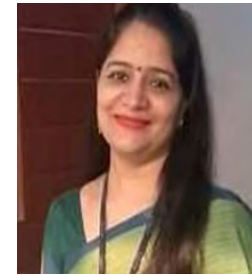
## MISSION

To involve available human resources at institutional level, and those people associated with us at national and international level, and bring them to one platform to accomplish the objectives of Data Science & Machine Learning Lab.

## OBJECTIVE

- To promote research and innovation in area of data sciences and Machine Learning.
- To strengthen scientific and technological excellence in the area of data science and Machine Learning.
- To bridge the gap between academic and industry through research collaborations.
- To support various industrial training programs and skill enhancement in the area of data science and machine learning.
- To provide consultancy in various application areas of data analytics and Machine Learning.
- To train the persons from industry and academia through summer schools and training programs.
- To provide solutions to unsolved problems in the area of data analytics to industry & Academia.

## TEAM MEMBERS



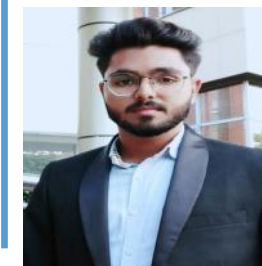
**Dr. Upasana Sharma**  
Assistant Professor  
Amity Institute of Information  
Technology



**Ms Gatha**  
Research Scholar  
Amity Institute of Information Tech-  
nology



**Mr. Krishan Pal**  
Technical Manager  
CISCO System , Pune , India



**Mr. Ashish Singhal**  
Student  
Amity Institute of Information  
Technology



**Ms. Isha Gupta**  
Student  
Amity Institute of Information  
Technology

## Activities Under AUN DATA SCIENCE & MACHINE LEARNING

### ⇒ Consultancy

Associate with each lab some companies which take consultancy services

### ⇒ Research

All the research problems / topics of research which are running or completed in your lab and associated team members and other persons involved

### ⇒ Training Program

List and curriculum for running short term regular training programs in your lab. This training is through lecture series and lecture are also uploaded on the YouTube under channel : AUN Labs

### ⇒ Summer School

Prepare on specialized course structure and syllabus for running 5-7 days summer school by our team and other speaker from academia and industry.

Link: <https://www.youtube.com/channel/UCI7MKUchUMNXMp0-0IGFFMg>

# RESEARCH LAB

## Artificial Intelligence



**Dr. SARIKA JAIN**  
Associate Professor  
Head,  
AUN Artificial Intelligence  
Lab

Artificial Intelligence is quickly becoming the cornerstone of modern computing. The world empowered by this capability is opening up to newer possibilities and avenues.

Industries such as healthcare, automotive, manufacturing, retail, transport, education etc. today are realizing the prospects of AI, they understand how valuable the technology is for achieving increased productivity. Unlike human labour that can be very limited, artificial intelligence provides greater leverage than was possible just a few years ago. The technology is able to achieve this through the use of innovative diffusion, apt and proactive data driven decisions and implementations.

The use of AI in organizations, governments, security frameworks, energy and natural resource management, etc., is drastically on the rise. Although AI advancement levels and use may differ substantially from one sector to the other, there are clear indicators pointing to the fact that more people are acknowledging the solutions that the technology brings. The AUN Labs have been created with this very leverage in mind. These labs shall provide the quintessential platform for new age AI based technologies to originate. Its an opportunity to create ground breaking technologies that touch lives of billions of people.

The Artificial Intelligence Research and Development group explores new ways of solving research problems applying advanced AI techniques using machine learning, deep learning, neural networks, fuzzy logic, natural language processing, knowledge representation and reasoning and genetic algorithms. In collaboration with leading universities such as Engineering Rutgers University Piscataway, New Jersey, Tsinghua University, Beijing, University of Aizu, Japan, State University of New York, Hosei University, Tokyo, Nelson Mandela University Port Elizabeth, South Africa, Computer Science University of Canberra, Canberra and Open University, London, we are working in diversified areas such as crop disease detection, robotics, AI based haptic gloves, combining image processing methods for enhancing MRI images, image encryption techniques, foreign object detection on runways and many more. We are exploring the data science projects on health monitoring, smart cities and agriculture for future directions.

## VISION

To enable and empower the global research fraternity by providing an enriching platform to perform and undertake niche strides in creating new knowledge for a better world

## MISSION

“From Platform to Perform, from Ideate to Create, from Innovate to Propagate...”

“Creating a better world, one innovation at a time.”

“Providing Sustained innovation is creating Sustained Evolution”

## OBJECTIVE

- To promote research and innovation.
- To strengthen scientific and technological excellence.
- To support various industrial training programs and skill enhancement.

- To train the persons from industry and academia through summer schools and training programs
- To provide solutions to unsolved problems using Artificial Intelligence
- To bring Artificial Intelligence to everyone impacting human life meaningfully.

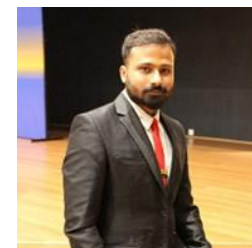
## TEAM MEMBERS



**Ms. Neetu Gupta**  
Assistant Prof.  
Amity Institute of Information  
Technology



**Dr. Siddharth Kalra**  
Industry Expert  
Sr. Solution Delivery Manager, Identity and Access Management, Cyber Security.  
Commonwealth Bank of Australia



**Mr. Priyaank Sinha**  
Student  
Amity Institute of Information  
Technology



**Mr. Abhinav Agarwal**  
Student  
Amity Institute of Information  
Technology

## Activities Under AUN Artificial Intelligence

### ⇒ Research

Research and innovation in machine learning, deep learning, natural language processing, computer vision, agriculture, healthcare and automation.

### ⇒ Summer School

Multiple summer school programmes to develop an interest in artificial intelligence.

### ⇒ Training Program

Training and workshops for students and faculty members for awareness and make them future ready.



# JOURNEY OF AI LAB





# SAP LABS



**Dr. LAXMI AHUJA**

Professor

Head,

AUN Data Science & Machine  
Learning Lab

Its only under your dynamic leadership and dedication towards the SAP Lab that I could take the SAP Lab to new heights of success. I believe I can make a significant contribution to this lab. Your valuable suggestions, comments and guidance encourage me to put more efforts for making it research oriented. Your deep insights helped me at various stages for establishing strong roots of the lab. Big thanks once again because without your guidance and support it would have never seen the light as it is today.

SAP Research Lab aims to develop critical skills for digital futures among academics, university students and young thinkers, and to build the bridge to executives and professionals. It provide software access to a couple of Cloud tools like SAP HANA Cloud Platform (Building Applications on Cloud) and SAP Lumira (Visualization Tool to Analyze Big Data) . SAP Research Lab enables faculty to bring SAP software and SAP University Alliances curriculum into classrooms and academic research, to better prepare the next generation designers, developers, data scientists, makers, entrepreneurs and business leaders for the exponential enterprise.

## VISION

- To provide state of the art facilities and programs for high quality research, training and for the benefit of the students.

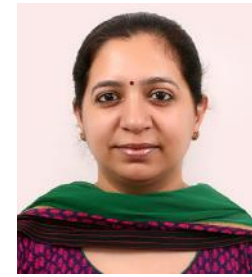
## MISSION

- To be the leading Research Lab for research and training
- To continually enhance the level of student satisfaction

## OBJECTIVE

- To expand our research Lab activities
- To work on projects/ problem statements shared by corporates.
- To expose students to the topics via the lectures such as on SAP HANA Cloud Platform, SAP S/4HANA – ERP, Analytics, and Design Thinking.

## TEAM MEMBERS



**Ms. Himdweep Khurana**

Manager, ATPC

Assistant Professor, AIIT



**Ms. Nandani Aggarwal**

Student

Amity Institute of Information  
Technology



**Mr. Satwik Sharma**

Student

Amity Institute of Information  
Technology



**Mr. Aditya Shantanu**

Student

Amity Institute of Information  
Technology

## Activities Under AUN DATA SCIENCE & MACHINE LEARNING

### ⇒ Research

All the research problems / topics of research which are running or completed in your lab

### ⇒ Summer School

Multiple summer school programmes to develop an interest in Data Science

### ⇒ Training Program

Training and workshops for students and faculty members for awareness and make them future ready.



AMITY UNIVERSITY UTTAR PRADESH  
**LECTURE SERIES**  
delivered by experts of  
**AUN RESEARCH LABS**  
Amity Institute of Information Technology

Lecture # 7

**"Spamming Techniques for Search Engine"**



**Dr. Laxmi Ahuja**  
Head, SAP LABS,  
AIIT, AUUP, Noida

Monday, May 4th  
4:00 pm – 5:00 pm

**Login Details**  
Join on MS Teams with  
code **zbg171** or send your  
email address at  
**lahuja@amity.edu**





# RESEARCH LAB

Block Chain and Data Security



**Dr. SARVESH TANWER**

Associate Professor

Head,

AUN Block Chain & Data Security Lab

Research is creating new knowledge. It's a distance between an idea and its realization. We are proud to be a part of Amity University. We at Amity Institute of Information Technology want to build an unparalleled research & innovation culture. We invite research scholars, faculties and students to visit and join our research lab to learn about latest research trends related to blockchain and data security.

AIIT AUN Blockchain and Data Security Research Lab (ABDSRL) is a dedicated laboratory echoing research and consultancy in the area of Blockchain and Data Security. Blockchain is a revolutionary technology set to change the future of computing and disrupt several industries with more innovative solutions. The popularity and utility of blockchain techniques significantly change the working of digital transactions. It plays an important role for secure data transmission, next generation communications and networks, cyber physical systems, Internet of Things (IoT), Social Networking, edge and cloud computing. It has seemingly endless number of applications in various domains.

## VISION

Our vision is to accomplish research and development (R & D) Projects, Patents and Research Papers using Blockchain alongwith other technologies such as IoT, Cyber Securiry and many more.

## MISSION

Our mission is to establish academic collaboration with industries and create research environment to explore innovative solutions that can be adopted in the near future.

## OBJECTIVE

- To understand about the concept of Blockchain and it's Applications.
- Have a clear and realistic view on the current state of blockchain technology with its issues, limitations and potential solutions that can take it to the next level.
- To know when and why blockchain has been used in the environment.
- To create blockchain strategies and solutions in different domains.
- To provide opportunities and training for scholars who are interested in pursuing research in this area for the development of business applications.
- To promote the research & innovation in the area of blockchain and data security.

## TEAM MEMBERS



**Dr. Neetu Mittal**

Associate Professor

Amity Institute of Information Technology



**Mr. Mohit Chaukikar**

Data Scientist

OLX, Gurugram, India



**Mr. Bhagirath Bhardwaj**

Head

OLX, Gurugram, India



**Mr. Supreet Singh**

Student

Amity Institute of Information Technology



**Ms. Riya Sharma**

Student

Amity Institute of Information Technology



**Mr. Mukul Mogha**

Student

Amity Institute of Information Technology



**Mr. Rohit Gupta**

Student

Amity Institute of Information Technology



**Ms. Ayushi Singh**

Student

Amity Institute of Information Technology



**Ms. Amna Shahab**

Student

Amity Institute of Information Technology



**Ms. Anchal Vij**

Student

Amity Institute of Information Technology

## Activities Under AUN BLOCK CHAIN & DATA SECURITY

### ⇒ Research

Research and innovation in machine learning, deep learning, natural language processing, computer vision, agriculture, healthcare and automation.

### ⇒ Summer School

Multiple summer school programmes to develop an interest in Block Chain & Data Security

### ⇒ Training Program

Training and workshops for students and faculty members for awareness and make them future ready.

# CISCO TECHNOLOGIES



**Dr. NITIN PANDEY**  
Associate Professor  
Head,  
AUN CISCO Lab

CISCO Networking Academy Lab is an opportunity to enable our students to become a part of ready net force for jobs in the field of Computer Network/ Network Security/IoT/Software Defined Networks/ Network Automation and as well as for researchers (scholars/faculty members) to perform real and simulation based research in their respective specializations related to Advanced Computer Networks .

## VISION

The motivation has always been to develop a High Quality Systems, Processes & Standards in conformity with the best Institutes in India & World-wide. Through these Cisco Academy Programs we are giving the opportunity of “Collaboration at the speed of innovation” and prepare our students to be industry ready.

## MISSION

The main goal of academy is to create opportunities, space and scope for the development of the talents of the youth. The world is becoming more digital, and having the skills to build networks, develop apps, secure devices, or analyze data is critical to solving the challenges we face. Discover the path to pursue your passion. Do work you love. Invent something or start a business. Change the world. Anything is possible in a digital world.

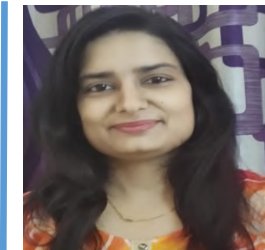
## OBJECTIVE

- Support this evolution and expose learners to new concepts and hands-on experiences. Best of all, courses are tied to CCNA certifications—among the most in-demand in the industry
- Learn how the Internet of Things (IoT) has the potential to alleviate some of the world’s most significant problems.
- Learn the fundamental principles, procedures, and practices of information and networking security.
- Learn the basic of Linux, the world’s most popular operating systems, and expand your career opportunities in IT.

## TEAM MEMBERS



**Dr. Ajay Vikrm Singh**  
Associate Professor  
Amity Institute of Information Technology



**Dr. Alka Chaudhary**  
Assistant Professor  
Amity Institute of Information Technology



**Ms. Ruchika Bathla**  
Assistant Professor  
OLX, Gurugram, India



**Dr. Himanshu Gupta**  
Associate Professor  
Amity Institute of Information Technology



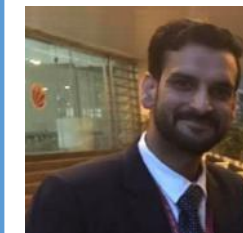
**Dr. Purushottam Sharma**  
Associate Professor  
Amity School of Engineering & Technology



**Dr. Anil Sajnani**  
Assistant Professor  
Amity Institute of Information Technology



**Mr. Ajay Lala**  
Assoc. Prof & Head  
Dept. of nformation Technology  
Gyan Ganga Institute of Technology & sciences



**Dr Gulshan Grover**  
Head CISCO Networking Academy  
Lovely Professional University

## Activities Under AUN CISCO

### ⇒ Consultancy

Associate with each lab some companies which take consultancy services

### ⇒ Research

All the research problems / topics of research which are running or completed in your lab and associated team members and other persons involved

### ⇒ Training Program

List and curriculum for running short term regular training programs in your lab. This training is through lecture series and lecture are also uploaded on the YouTube under channel : AUN Labs

### ⇒ Summer School

Prepare on specialized course structure and syllabus for running 5-7 days summer school by our team and other speaker from academia and industry.





# JOURNEY OF CISCO LAB







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