

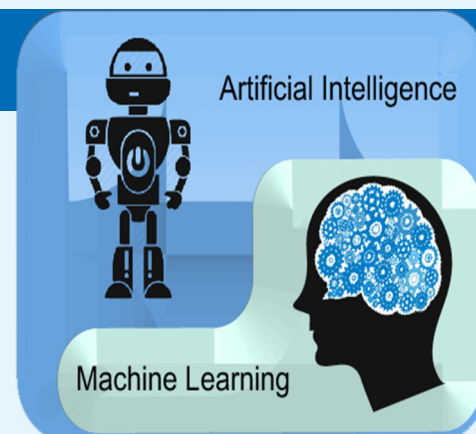
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (AIML)

About B.Tech in CSE - Artificial Intelligence and Machine Learning course

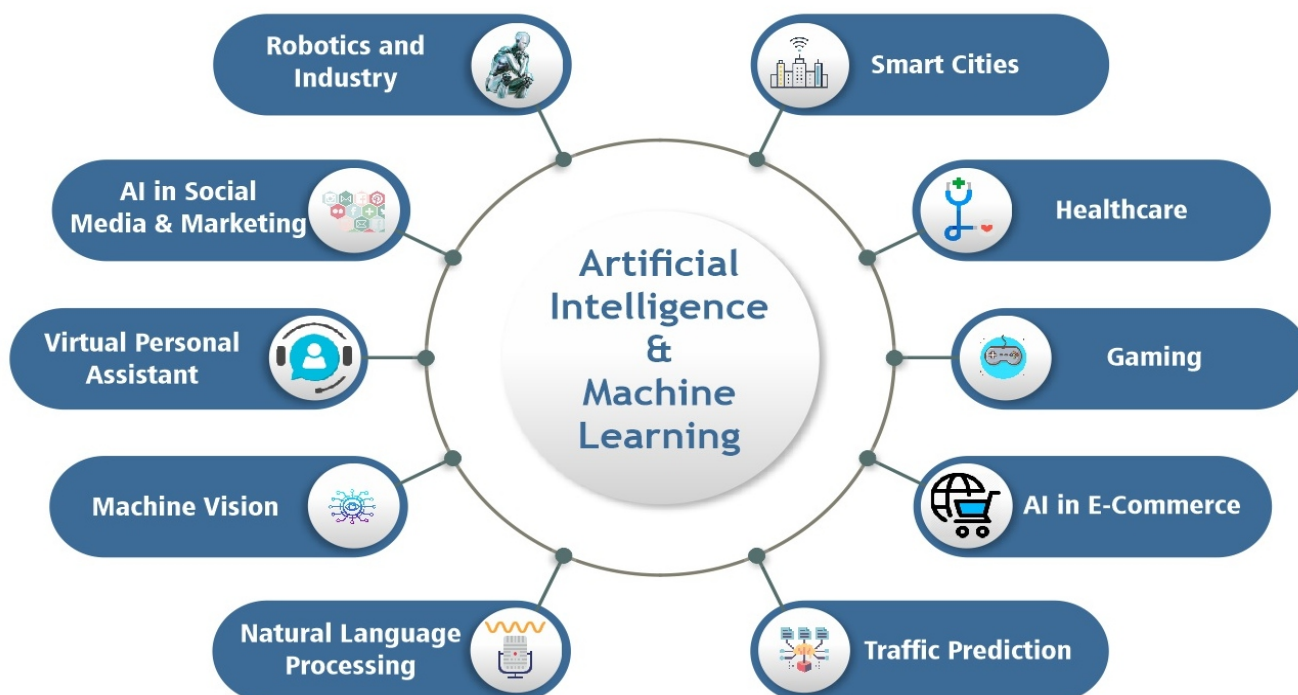
- Bachelor of Technology in Computer Science Engineering with a specialization in Artificial Intelligence & Machine Learning is one of the top-notch careers of this new decade. Technology is such a field, which never gets static. It's a dynamic branch of sweeping innovations and experiments.
- While Artificial intelligence is driving towards creating a simulation of human intelligence and behaviour, Machine learning on the other hand is a subset of AI that enables a computer system to make predictions or take some decisions using historical data without being explicitly programmed.
- This course is best suited for students seeking to build world class expertise in Artificial Intelligence and Machine Learning and emerging technologies which help to stand in crowd and grow careers in upcoming technological era.

PROGRAM HIGHLIGHTS

- Student centric learning approach.
- Industry attachments: Seminars / Conferences / Workshops / Industry Visits / Guest Lectures.
- Lectures by Industry Experts & academia.
- Acquire ability to design intelligent solutions in variety of domains & business applications.
- Gain Hands on experience with machine learning components, intelligent reasoning & various other AI tools & technologies.



Application of AI and ML



Specific Jobs in AI and ML



Top 10 Fresher Jobs in AI and ML



**Business Development
Manager**



Data Scientists



Product Manager



Big Data Engineer



**Machine Learning
Engineer**



**Artificial Intelligence
Engineer**



**Business Intelligence
Developer**



Research Scientist



Robotic Scientist

Salary of Computer Science Engineer with specialization In Artificial Intelligence and Machine Learning :

- The medium salary of an AI professional is around **Rs 14.3 lakh per annum**. The top AI professionals have an annual salary of around **Rs 50 lakh or higher**. The high salary range is the result of the high demand for Artificial Intelligence professionals in the country.
- A person in the field can expect a 60% to 80% increase in their salary after gaining some experience and learning new AI skills

B.Tech in CSE-Artificial Intelligence and Machine Learning Future Scope

- Artificial Intelligence market is expected to grow from USD 21.46 Billion in 2018 to USD 190.61 Billion by 2025. Machine Learning (ML), globally recognized as a key driver of digital transformation, will be responsible for cumulative investments of \$58 billion by the end of 2021. Neural networks market will be worth over \$23 billion in 2024.
- It is not needed to be mentioned that AI has now penetrated in all the horizons of service sector. There is rarely any field which is untouched by Artificial Intelligence hence generating lakhs of vacancies for skilled professionals by 2022.

Artificial Intelligence and Machine Learning (AIML)

ACADEMIES FOR JOB ORIENTED COURSES



CISCO NETWORKING ACADEMY

(<https://www.netacad.com>)

Certification courses offered :

Networking

1. Networking Essentials
2. CCNA: Introduction to Networking (ITN)
3. CCNA: Switching, Routing, and Wireless Essentials (SRWE)
5. CCNA: Enterprise Networking, Security and Automation (ENSA)

Operating Systems & Information Technology

1. IT Essentials
2. Linux Essentials

Programming

1. Programming Essentials in Python
2. JavaScript Essentials
3. Programming Essentials in C
4. Advanced Programming in C
5. Programming Essentials in C++
6. Advanced Programming in C++

Programmable Infrastructure

1. Introduction to Internet of Things (IoT)
2. IoT Fundamentals: Connecting Things
3. IoT Fundamentals: Big Data & Analytics
4. DevNet Associate

Cybersecurity

1. Introduction to Cybersecurity
2. Cybersecurity Essentials
3. CyberOps Associate
4. Cloud Security
5. Network Security
6. IoT Security

Cisco Lab Environments :

- Simulation with PacketTracer
- Virtualized Equipment
- Virtual Machines
- Prototyping Lab
- Remote Equipment
- Physical Hardware

Employment Opportunities :

- **Talent Bridge Matching Engine**

Search for jobs with Cisco as well as Cisco partners and distributors seeking Cisco Networking Academy students and alumni worldwide.



AWS (Amazon Web Services) Academy

(https://www.awsacademy.com/LMS_Login)

Certification courses offered :

1. AWS Academy Cloud Foundations
2. AWS Academy Data Center
3. AWS Academy Learner Lab - Foundation Services
4. AWS Academy Machine Learning Foundations
5. AWS Academy Engineering Operations
6. AWS Academy Introduction to Cloud: Semester 1
7. AWS Academy Introduction to Cloud: Semester 2

AWS Cloud credits given to students : \$100 for 1 year



ORACLE ACADEMY

(<https://academy.oracle.com>)

Certification courses offered :

1. Java Fundamentals
2. Java Foundations
3. Java Programming
4. Artificial Intelligence with Machine Learning in Java
5. Database Foundations
6. Database Design and Programming with SQL
7. Programming with PL/SQL
8. Oracle Application Express (APEX) Development Foundations
9. Oracle Cloud Infrastructure Foundations I
10. Oracle Cloud Infrastructure Foundations II
11. Oracle Primavera P6 Professional Project Management Fundamentals.

Oracle Cloud credits given to students : \$300 for 1 year



IBM Open P-Tech

(https://www.awsacademy.com/LMS_Login)

Certification courses offered :

1. Artificial intelligence
2. Cloud computing
3. Blockchain
4. Cybersecurity
5. Data Science
6. Quantum Computing
7. Agile
8. Design Thinking
9. Emerging Technologies
10. Sustainability
11. Internet of Things

ACHIEVEMENT BY STUDENST

Dhruva Bhattacharya

First Price winner of Alibaba
Low Code Development (Rs 2.3 Lac)



**Yash Richhariya,
Piyush Nanakani
Vedant**

Won the tag of "Best Software Team"
in HackaversuMM'22 organized in
Ambala, Haryana. Winner of SPIDER 3.0
THE WEB CRAWLER (TeamGothamites)



Yash Richhariya

1 AWS Deep Racer Scholarship Winner for
completing the race by building a Reinforcement model

Naitik Sharma

Winner of SPIDER 3.0 THE WEB CRAWLER
(Team Gothamites)

HackaversuMM'22 Finalist, HackVSIT 4.0
& Tic-Tech-Toe Finalist

**Rounak Bedi, Shubham
Thakur, Bishal Podder
Dhurva Bhattacharya
Sajal Jain, Nishtha soni**

Finalist and runner-up of
Smart India Hackathon 2022.



**Arjit Mishra
Rounak Bedi
Piyush Nankani**

Runner up of Case Study Competition of IIT Bombay

ACHIEVEMENT BY STUDENST

Ishween Khatri

Winner, MLH Hackathon Organized at Devpost

**Rounak Bedi,
Shubham Thakur
Sajal Jain**

Winner, Reva hackathon Organized by
MLH (Fellowship Opportunities Offered)



**Naitik Sharma
Akshay Khandelwal
Priyanshu Roy
Shivansh Tiwari**

Microsoft Imagine Cup Finalist 2022



**Yash Richhariya
Naitik Sharma**

JIC HackFest 4.0 Finalists



**Nishtha Soni
Yash Richhariya
Kopal**

Student Internship, Huawei Internship

Team Directrix

**Nandan Patkar
Anuj khatri
Palak Jaiswal
Abhishek Manglani
Anusha Satsangi
Aashi Shukla**

Ranked 2nd in Perfect Pitch
Pitching Competition





Microsoft Imagine Academy

1. Microsoft Azure Fundamentals
2. Developing ASP.NET MVC Web Applications
3. Microsoft Cybersecurity Architect
4. DevOps Engineer Expert
5. Microsoft Azure AI Fundamentals
6. Microsoft 365 Fundamentals



RAPIDMINER ACADEMY Courses are



Data Engineer



Business Analyst



Domain Expert



Data Scientist



Executive



Administrator

Professional

Applications & Use Cases



Data Engineering



Machine Learning



Master

Applications & Use Cases



Data Engineering



Machine Learning



Platform Administration



AI COURSES AND CERTIFICATIONS FROM INTEL

(<https://www.intel.com/content/www/us/en/developer/topic-technology/artificial-intelligence/training/courses.html>)

1. Introduction to Machine Learning
2. Deep Learning
3. Introduction to AI
4. Applied Deep Learning with TensorFlow*

P.O Tilwara Ghat , Near Bargi Hills, Jabalpur, (M.P.)

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