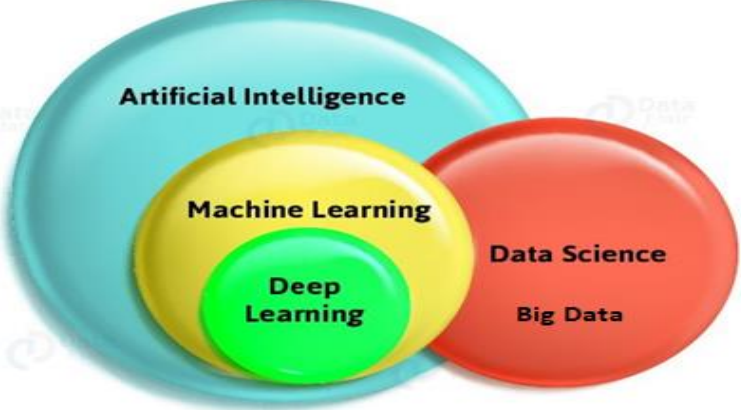


Learn Upskilling Courses in B.Tech & M.Tech (Artificial Intelligence & Data Science)

COURSE TITLE	Artificial Intelligence & Data Science
COURSE IMAGE	
COURSE DESCRIPTION	<p>Man-made brainpower (AI) and Data Science (DS) gain its criticalness because of the investigation of Internet. With the fast development of PCs and registering, AI and DS are inescapable and give ground-breaking answers for savvy situations including Internet of Things and Industry 4.0.</p> <p>Computer based intelligence and DS conveys information driven arrangement utilizing computational standards, techniques and frameworks for separating information from information and present day computational frameworks that exhibit capacities of discernment, thinking, learning and activity that are run of the mill of human insight.</p> <p>Back in the 1950s, the fathers of the planet Minsky and McCarthy, described AI as any task performed by a program or a machine. Building human-level points of view through the formation of man-made consciousness (AI) is the best in class in Computer Science. Wise machines are impacted by developing advances, keen gadgets, sensors, figuring power, quicker information preparing, colossal capacity and human-machine communication abilities. Information Science is an interdisciplinary field with the capacity to remove information/experiences from information - be it organized, unstructured, or semi-organized information. Twinned with Artificial Intelligence, progressively productive answers for find important data from colossal pools of information are conceivable today, with information from different sources - sensors, pictures, gushing video, satellite, clinical symbolism and the cloud. This B.Tech/M.Tech program has a far reaching inclusion of applied arithmetic utilized in information science and man-made consciousness while setting up the understudies to investigate, structure and analysis answers for issues. The educational plan targets specialized and structure abilities, AI information, and skills expected to ace key logical techniques and</p>

devices, and information the board, with the goal of making creative systems to take care of testing genuine issues. “Artificial intelligence will reach human levels by around 2029. Follow that out further to, say, 2045, we will have multiplied the intelligence, the human biological machine intelligence of our civilization a billion-fold.” Artificial Intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to think like humans and mimic their actions. In today’s technology-driven world, data is just a bit like the raw diamond, and Data Science is that the mining infrastructure set-up that creates the information useful for transforming the world . Data science is an expansive field of study relating to information frameworks and procedures, planned for keeping up informational indexes and determining significance out of them. Information researchers utilize a blend of apparatuses, applications, standards and calculations to understand arbitrary information groups. Since practically a wide range of associations today are creating exponential measures of information around the globe, it gets hard to screen and store this information. Information science centers around information demonstrating and information warehousing to follow the ever-developing informational collection. The data separated through information science applications are utilized to manage business procedures and arrive at authoritative objectives.



PROGRAM OUTCOMES:

Empower graduates to structure and tackle the intensity of AI in expansive application fields from vision to cutting edge independent frameworks.

Inspect a lot of information to reveal shrouded designs, relationships, bits of knowledge, and assist associations with tackling their information to recognize new chances.

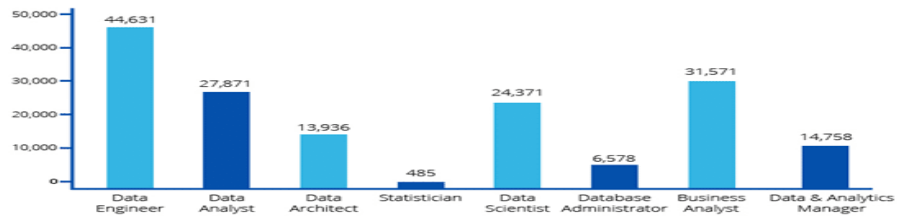
Obtain expertise to turn actionable insights and cutting-edge technology

	<p>into innovative products towards solving real-world problems.</p> <p>Inculcate independent research ability that addresses fundamental problems.</p> <p><u>SYLLABUS FOR B.TECH / M.TECH - CSE (AI & DS)</u></p> <p>Computing for Data Science, Optimization for Data Science, Deep Learning, IoT systems and the Cloud, Communication Skills, Maths, Introduction of AI, Programming and Logic Building skills, Data Science and Machine Learning, Python Programming, Java Programming, Advance Java Programming, Operating Systems, DBMS, Introduction to Machine learning, Signal Processing, Introduction to Drones, algebra, Data Structures, Computer Architecture, Algorithms, Robotics, informatics, Deep learning, Introduction to Brain and Neuroscience, Introduction to Industry 4.0, IOT, Computer Networks, Data <u>Visualization</u>, and other prominent subjects related AI with Advanced AI electives. Pursued by the scholars from 1st semester to 8th semester alongside 2 projects, 1 mini-project in or after 6 semester and 1 final project in 8 semester for B.Tech and from 1st & 2nd semesters theory and 3rd and 4th Semesters final projects for M.Tech.</p>
COURSE JOB SCOPE	<p>According to an IBM report, Data Science jobs would likely grow by 30 percent. The estimated figure of job listing is 2,720,000 for Data Science in 2020. Also, according to the US Bureau of Labor Statistics, about 11 million jobs will be created by 2026.</p> <p>India is expected to see 1.5 lakh new job openings in data sciencethis year, which is an increase of about 62% from last year, according to a report prepared by an edtech firm. A majority of these jobs would preferably be for professionals with less than five years of experience. Jan 20, 2020</p> <p>For three years in a row, the role of a data scientist has been named the number one job in the US by Glassdoor. According to a report by the US Bureau of Labour Statistics, the rise of data science needs will create roughly 11.5 million job openings by 2026. The World Economic Forum predicts that by 2022, data scientists and analysts will become the number one emerging role in the world.</p>
COURSE SALARY RANGE	<p>Average salary in abroad \$ 139,840/year</p> <p>Average salaries in India is Rs.3.6L to 15.2L</p>

Salary Structure for Data Science Professionals

Job Profiles	Salary/Year
Data Engineer	₹1,270,879
Data Analyst	₹875,249
Data Architect	₹785,561
Statistician	₹489,234
Data Scientist	₹978,625
Database Administrator	₹686,521
Business Analyst	₹1,745,264
Data and Analytics Manager	₹1,570,869

Who earns what salary - National Average Salaries (India)



Average salary of data scientists

Figures in Rs lakh/per annum

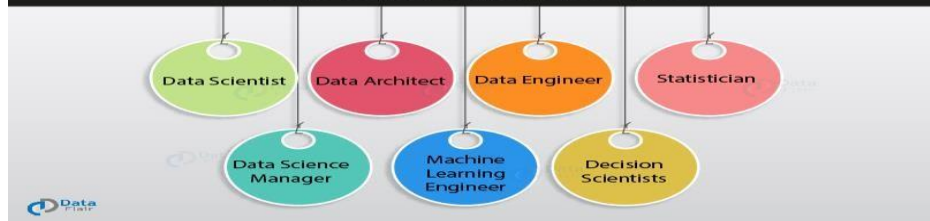


COURSE JOB ROLES

Career path one can choose after the course

- Machine Learning Engineer
- Data Scientist
- Artificial Intelligence Engineer
- Data Analyst
- Machine Learning Architect

Top Data Science Jobs



Data Analytics Salary of the Top Companies in India

TCS	Rs 300,000
IBM	Rs 400,000
HCL Technologies	Rs 334,000
eClerx	Rs 183,000
Accenture's	Rs 370,000
WNS	Rs 360,000.

COURSE PROMINENT
JOB COMPANYS



Mu Sigma Inc. Data Scientist salaries
India

₹600,000/yr
Range: ₹302,000 - ₹745,000



Tata Consultancy Services Data Scientist salaries
India

₹860,000/yr
Range: ₹207,000 - ₹1,930,000



Accenture Data Scientist salaries
India

₹1,000,000/yr
Range: ₹293,000 - ₹2,700,000



Microsoft Data Scientist salaries
India

₹1,930,000/yr
Range: ₹750,000 - ₹2,850,000



Cognizant Data Scientist salaries
India

₹753,000/yr
Range: ₹428,000 - ₹1,620,000



Fractal Analytics Data Scientist salaries
India

₹1,150,000/yr
Range: ₹737,000 - ₹1,900,000