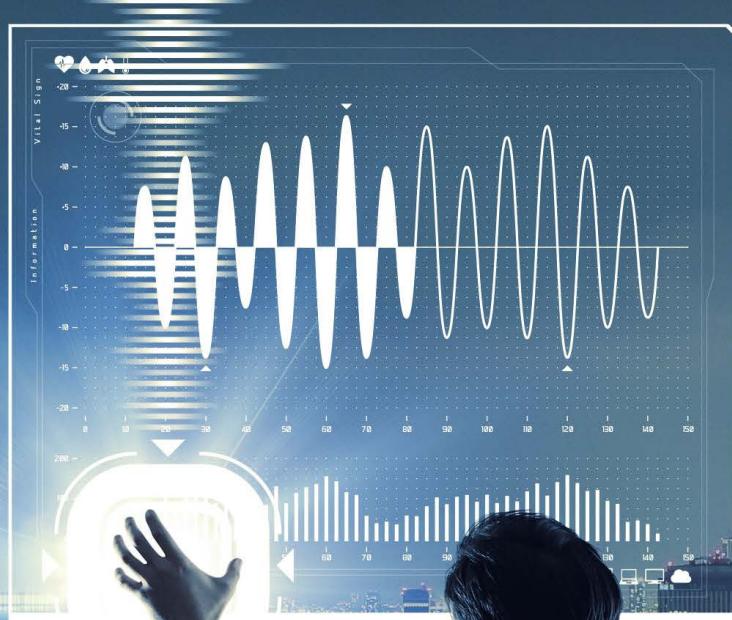
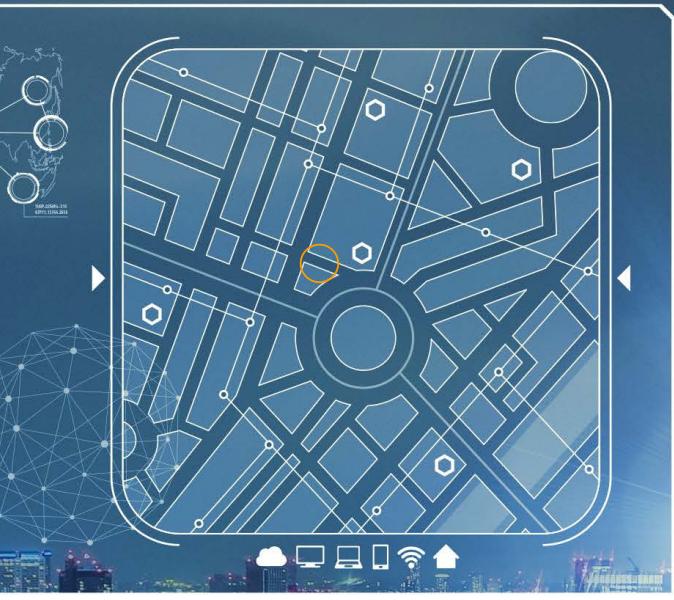




SRM

INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University u/s 3 of UGC Act, 1956)



M.TECH IN DATA SCIENCE AND ARTIFICIAL INTELLIGENCE

- Weekend Classroom Program
- Designed for Working Professionals

WHY AI & DATA SCIENCE?



97 MILLION

97 million new AI jobs will be created across 26 countries by 2025.

Source: World Economic Forum



3 MILLION JOBS

In a survey conducted by Analytics Insight, there will be 3,037,809 data science jobs worldwide by 2021.

Source: Analytics Insight



63%

63% of CEOs believe AI will have a larger impact than the internet.

Source: PwC Annual Global CEO Survey



11.5 MILLION JOBS

11.5 million new data science and analytics jobs will be created by 2026.

Source: U.S. Bureau of Labor Statistics



SRMIST - ONE OF INDIA'S BEST UNIVERSITIES



**Ranked
within Top 50
Universities**

SRMIST is ranked 35th in the country in NIRF University Rankings

*MHRD - NIRF



**A++
Grade**

SRMIST has been accredited with the Highest 'A++' Grade

*NAAC



**#3 Ranked
in India**

SRMIST is ranked 3rd amongst Top Engineering Institutes in India

*Times Engineering Survey - 2020



QS Global Rating

SRMIST is a globally 4-star rated university by QS and has been given the Diamond Rating by QS-IGAUGE in India

*QS World University Rankings



PROGRAM HIGHLIGHTS*

To help professionals become data-proficient and build career critical competencies, SRM Institute of Science and Technology is offering the M.Tech Program in Data Science and Artificial Intelligence. The program enables participants to gain an in-depth understanding of data science and artificial intelligence techniques and tools that are widely used by companies. The program also imparts real-world skills to enable learners to become job-ready. This is supplemented with a project-driven learning experience supported by Great Learning.



**Weekend Classroom Program |
Designed for Working Professionals**



**Classes at SRM Chennai
Main Campus, Kattankulathur**



**M.Tech Degree from SRM Institute
of Science and Technology**



**Dedicated Career
Support**



**Awaiting approval from AICTE.*

THIS PROGRAM WOULD BE SUITABLE FOR YOU IF:

- You want to build a career in artificial intelligence and data science
- You are looking to build a deep expertise in AI and data science with a high-quality masters program
- You are interested in building real-world AI and data science skills such as machine learning, deep learning, big data, Python, SQL, TensorFlow and more
- You want an immersive hands-on learning experience through industry-relevant projects



On completion of this program you will:

- Be able to leverage the latest AI and data science tools and techniques in an AI or data science role
- Be able to structure business problems in artificial intelligence and data science frameworks
- Become an ideal candidate for roles such as Data Scientist, Data Analyst, AI Analyst, AI Engineer, AI Research Scientist, and more

CURRICULUM*

The curriculum for the program is a blend of academic courses, AI and data science tools & techniques, along with hands-on labs & projects.

PYTHON FOR DATA SCIENCE

- Python Basics
- Data Structures & Handling
- Functions
- Numpy
- Pandas
- Scipy
- Scikit-learn

STATISTICAL METHODS FOR DECISION MAKING

- Statistics (Descriptive, Inferential)
- Probability & Distributions
- Hypothesis Testing
- ANOVA, ChiSquare
- Measures of Dispersion
- Statistical Simulation Techniques

DATA ANALYSIS AND VISUALIZATION

- Structuring Analytic Problems
- Analytical Framework
- Data Storytelling
- Dashboard and Visualization Principles
- Tableau
- PowerBI

MATHEMATICAL FOUNDATION

- Linear Algebra for Data Science
- Matrices and Image processing
- Functions and Derivatives
- Optimisation and Loss Functions

MACHINE LEARNING:

Supervised Regression

- Exploratory Data Analysis
- Feature Engineering
- Linear Regression - Model building & Fine Tuning
- Regularization Techniques
- Model Deployment

Supervised Classification

- Logistic Regression
- K-Nearest Neighbours
- Decision Trees
- Ensemble Techniques
- Naive Bayes

Unsupervised Model

- Clustering Techniques
- K-means Algorithm
- Dimensionality Reduction
- Recommender System

TIME SERIES FORECASTING

- Moving Average
- Time Series Forecasting
- Auto-correlation
- ARIMA

DEEP LEARNING

- Neural Networks
- Tensorflow and Keras
- CNN and Applications
- Transfer Learning and Applications
- Object Detection, Siamese, Networks, GANs

Natural Language Processing

- Text Analytics - Basics
- Document Summarization and Classification
- Web Scraping
- Sequential Modelling
- Transformers

Computer Vision

- Image Formation and Preprocessing
- Noise Filtering
- Image Segmentation
- Feature Extraction
- Image Classification
- Deep Learning Models for Image Processing

BIG DATA TECHNOLOGY

- Hadoop
- HDFS and Map Reduce
- NoSQL and MongoDB
- Batch Processing (Hive, HBase)
- Real Time Processing (Spark, Kafka)



OPEN ELECTIVES

- Operations Research
- Industrial Safety
- Entrepreneurship and IPR
- Business Analysis and Communication
- Professional Ethics

M.TECH THESIS

**This is an indicative curriculum and is subject to change.*

M.TECH DEGREE*

Upon successful completion of the program, you will receive an M.Tech Degree from SRM Institute of Science and Technology.



SRM Institute of Science and Technology
hereby confers the degree of
**Master of Technology in Data Science and
Artificial Intelligence**

to

AJIT SINGH

on 21st February 2021

Designation
SRM Institute of Science
and Technology



Designation
SRM Institute of Science
and Technology



GET THE GREAT LEARNING ADVANTAGE

Great Learning is India's leading professional learning company. When you choose this program, you also get access to Great Learning's extensive pool of industry experts and dedicated career assistance.

- **1 Million+ Learners**
- **2500+ Faculty & Industry Experts**
- **160+ Countries**
- **500+ Hiring Partners**
- **Best E-Learning Company of the Year***

*EdTech Review Awards 2020.

E-PORTFOLIO & RESUME BUILDING SESSIONS



An e-portfolio is a snapshot of all the projects done and skills acquired during the program that is shareable across social media channels. We also help you build your resume to highlight your AI and data science skillset along with your previous professional experience.

GREAT LEARNING JOB BOARD



The program provides candidates access to the Great Learning Job Board. 500+ organizations approach us with job opportunities which are shared through the Job Board with our candidates. We've seen over 8000+ alumni transition to the careers of their choice, with an average salary hike of 48%.

PERSONAL CAREER COACH



Get access to career mentoring depending upon your experience in the industry with a personal career coach. The coaches are either from the AI and data science industry or have transitioned into AI and data science roles so the candidates benefit from their guidance on how to build a career in a specific industry.

GL EXCELERATE CAREER FAIRS



We regularly conduct online career fairs to connect our students to industry opportunities. We also conduct intermittent offline fairs across major cities. Our career fairs have seen leading hiring partners like Accenture, HSBC, UST-Global, Rakuten, Myntra, DXC Technologies, Tredence, Brillio, TheMathCompany, AB InBev etc. conduct over 300 interviews.



HIRING PARTNERS

 INTELLIGENCE FOR IMAGINATION	J.P.Morgan		
	McKinsey & Company		
	+500 MORE COMPANIES		

TESTIMONIALS*



The content was understandable to everyone. The learners in the course were from different backgrounds and experience levels. But, the faculty were able to explain all the concepts clearly, such that it was understood by everyone who took up the program. The faculty were competent in their knowledge. All the sessions were very interactive and that in turn, helped me in my career. The course curriculum was structured extraordinarily. It was in a step-by-step manner and this was very helpful.

TAMILARASU J
Assistant Manager - Production

SAMSUNG



The professors delivered great classes and prepared modules that were easy to follow, the course structure was great. During the course, I was able to implement my learnings in my day-to-day activities simultaneously. I enjoyed the line of work and took up freelance projects. Due to networking with alumni in the course, I was able to create a powerful group of contacts whom I still talk to from time-to-time.

SARVESHWARAN RAJAGOPAL
Data Scientist

Sunoida



I chose to upskill because the industry was going through a transformation phase from IT to AI. I wanted to be at par with the changing industry. The course is structured so beautifully that with just a little effort, it can be taken up along with pursuing a job. I could upskill myself along with my work and that is the main USP of this course. There was a lot of interaction amongst the learners and the faculty, and that helped in creating a competitive yet very comfortable environment.

URMI SARKAR
Data Scientist

ERICSSON

ADMISSIONS PROCESS

ELIGIBILITY

B.E/B.Tech. (or) M.Sc. (or) MCA degree and a minimum of 60% in X, XII and Bachelor's degree.

SELECTION PROCESS

APPLICATION FORM

Apply by filling a simple online application form

APPLICATION REVIEW

The admissions committee will review and shortlist

ADMISSIONS TEST

Write and clear the admissions test

INTERVIEW

Program selection interview

To ensure high-quality learning, the batch will have limited seats. Please apply early to secure your seat.

PROGRAM FEE

WEEKEND-CLASSROOM ₹5,00,000

Installments:

Pay admission fee + 1st installment before program commencement, followed by 3 equal quarterly installments.

FINANCIAL AID



Scholarship options available for candidates based on merit.



SRM Institute of Science and Technology (formerly known as SRM University) is one of the top-ranking universities in India with over 70,000 students and 4,500 faculty members across all campuses. SRM IST offers a wide range of undergraduate, postgraduate, and doctoral programs in Engineering, Management, Medicine & Health Sciences, Science & Humanities, Law, and Agriculture. SRM IST has been accredited by NAAC with the Highest 'A++' Grade in the year 2018, valid for the next 5 years. It has been ranked 35 nationally under Universities Category by NIRF (National Institutional Ranking Framework) in 2020.

In Collaboration With:



Great Learning is one of India's leading ed-tech companies for professional and higher education. It offers comprehensive, industry-relevant programs in Software Engineering, Business Management, Business Analytics, Data Science, Machine Learning, Artificial Intelligence, Cloud Computing, Cyber Security, Digital Marketing, Design Thinking, and more.

Great Learning's programs are developed in collaboration with the world's foremost academic institutions like Stanford University, The University of Texas at Austin, MIT Professional Education, Northwestern University, Indian Institute of Technology, Madras (IIT Madras), International Institute of Information Technology Hyderabad (IIIT Hyderabad), People's Education Society University, Bengaluru (PES University, Bengaluru) and Great Lakes Institute of Management and are constantly reimaged and revamped to address the dynamic needs of the industry. Great Learning is the only ed-tech company to provide these programs in a blended mode, classroom mode and in a purely online mode, relying on its vast network of expert mentors and highly qualified faculty to deliver an unmatched learning experience for learners in India and the world over. Having impacted 1 million+ learners from over 160+ countries, Great Learning is on a mission to enable transformative learning and career success in the digital economy for professionals and students across the globe.



**READY TO ADVANCE
YOUR CAREER?**

APPLY NOW

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+91 80471 89112

Email us
srm-mtech@greatlearning.in

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www.greatlearning.in