



# **M. TECH DATA SCIENCE**

**BROCHURE**



**IIT PALAKKAD**

M. Tech in Data Science a masters degree programme offered by the Department of Data Science at IIT Palakkad. A major highlight is that it is interdisciplinary in nature with students from various engineering and science backgrounds getting admitted to the program. The Idea of this program is to train students from various backgrounds to the fundamentals of the data science and artificial intelligence, so that graduated students become experts in interdisciplinary subjects in the intersection of their background and data science.

The curriculum developed by leading data scientists in the country making it relevant for the current and future requirements of Data Science in industry as well as academic research. The Department of Data Science comprises of young yet experienced researchers in various fields of data science, artificial intelligence, machine learning, deep learning, computer vision, information retrieval, and several application areas like Climate, Agriculture, Systems Biology, ML Systems, and Health Care.



## Minimum Eligibility Criteria:

4 year UG Degree in Engineering (BE or BTech)

OR

Masters in Mathematics/ Applied Mathematics/ Statistics/ Operations  
Research/ Physics

- GATE Qualification in CS/IT/EC/EE/IN/CE/ME/AE/MA/ST/PH



Prasanth: Software Developer at Vehant Technologies



The DS program gave me an opportunity to pursue Data science, despite my science background and provided me with huge support to cope up with the curriculum. The MLG group of CREDS conducted various Data science talk series, workshops and encouraged us to participate in various ML competitions and Hackathons which provided a broad idea of various research fields in Data science and also helped in testing and fine-tuning our skills and understanding.

## Curriculum Highlights:

- |  |                       |
|--|-----------------------|
| (1) Foundational Courses                         | (5) Big Data Lab      |
| (2) Machine Learning                             | (6) Computer Vision   |
| (3) Deep Learning                                | (7) Data Engineering  |
| (4) Electives from various domains (NLP, IR, QA) | (8) Year long project |



Pallavi Hoge - post graduate engineer trainee at L&T Infotech



"IIT Palakkad allowed me for the first time dive into the world of AI and Machine learning. Even with non CSE background I was able to crack the understanding and apply the tools being taught and work on various curricular projects. This helped in my placement interview as well. I enjoyed the opportunities and learned aspects of theory to practice which give insight to the daily activities of a data scientist."

# FACILITIES

## GPU - Compute Infrastructure

The institute recently has installed a modest GPU server with 8 GPU cards to support the large scale experimental requirements of the students. In addition, a more powerful GPU facility is also being planned.



## Library

A peaceful environment offering a plethora of resources including Books (fiction and non-fiction), Scientific Journals, Magazines, Newspapers. The Library also offers high speed internet access for accessing licensed online resources. The Library also offers access to various journals online with the support of national consortium E-Shodh Sindhu (INFLIBNET).

## Student clubs

There are more than 17 different talent based clubs like coding, sports, singing, dancing, dramatics, photography to name a few; whatever your talent or interest may lie in, name it and we assure you that you can fit right in.

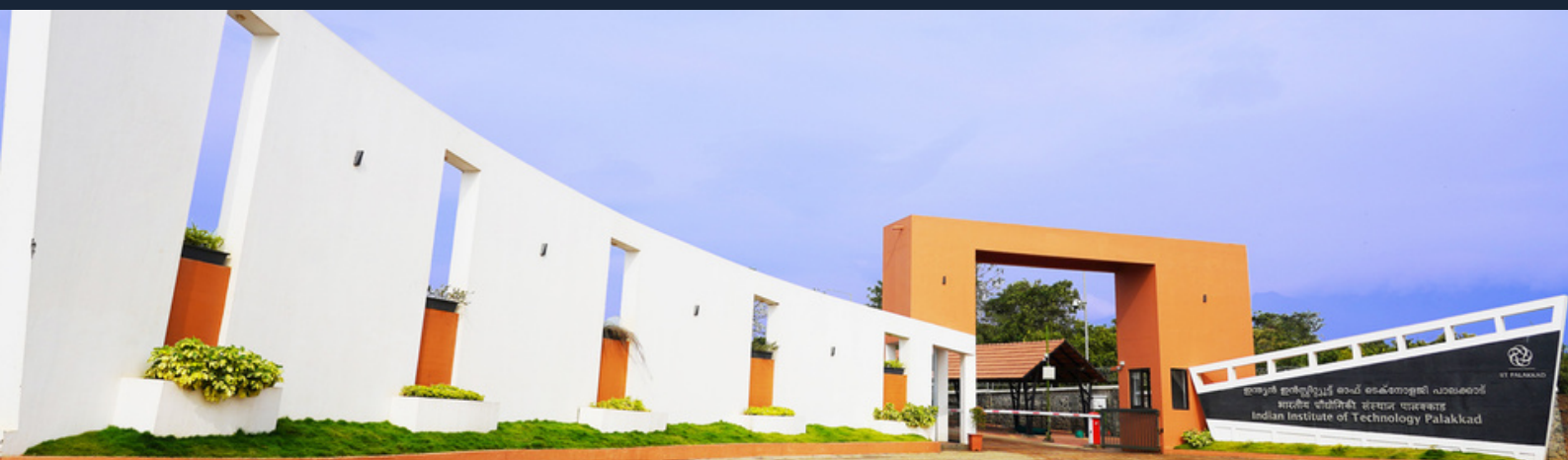
## Hostels

IIT Palakkad currently functions in 2 campuses: the Ahalia Integrated campus at Kozhippara and the Nila Campus at Kanjikode. Basic facilities, areas for recreation and fitness and 24×7 high speed WiFi connection for all hostellers are available on campus.

## MITRA-Student wellness and counselling cell

Mental health and overall wellness of its students are a priority for the Institute. There are 2 well trained full time counselors who are a part of the Students Wellness Counselling Cell (SWCC) called MITRA. In addition to this, students have free access to YourDOST, an online counselling service, that they can use at any hour of the day.

# PLACEMENTS AND INTERNSHIPS



## Industry Academia Conclave

Our Institute ensures that the students are industry ready by enabling interaction with the top tech giants. This includes Intel, AMD, Microsoft, Nvidia, Qualcomm, Samsung, ARM, Multicore Ware among the several other leading companies. Participation in this event ensures that the students get well acquainted with the tools and technologies used in the industry, encouraging them to be better prepared for placement season.





Dr. Sahely Bhadra



Dr. Koninika Pal



Dr. Narayanan C Krishnan



Dr. Mrinal Das



Dr. Satyajit Das

# Faculty Team

Sneha Mohan - post graduate engineer trainee at Data services



The curriculum was made in such a way that it was really accessible to students from the non-CSE background also. The faculties in IIT Palakkad were very supportive and took time to ensure that we are all comfortable in learning new concepts. Even though it seemed a bit hectic in the first semester, I have learned so much in such a short period of time which helped me to do projects of interdisciplinary nature. The orientation given by Placement Cell also helped us to get a good placement and easily change our career path.





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