

Aditya Kharmale

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in Aditya Kharmale

EDUCATION

Indian Institute of Technology, Hyderabad

Bachelor of Technology in Chemical Engineering

CGPA: 8.44

2021 - 2025

Indian Institute of Technology, Hyderabad

Minor in Economics

2023 - 2025

Nalanda High School

Senior Secondary (12th class)

Percentage: 93.0%

2019 - 2021

Nalanda High School

Class 10th

Percentage: 96.66%

2018 - 2019

PROJECTS

Artificial Neural Network (Deep Learning)

- Using the Conv-LSTM CSA model, we have recognized the emotion of a Driver on the VAD (Valence-Arousal Dominance) scale
- Use of **Tensorflow (Keras), Scikit-Learn, Numpy, Pandas, Matplotlib**

XGBOOST (Machine Learning)

- Developed XGBoost model to predict cracks in steel plates, benefiting Material Science Department's research and enhancing industrial safety.
- Use of **xgboost, seaborn, Numpy, Pandas, Matplotlib**

Monte Carlo Simulation (Data Analysis)

- Analysis of stochastic variations in variables exhibiting the practical industrial condition.
- Conclusions on safety and stability of potential processes.

City-Model-Using Graph (Data Structures)

- Demonstrates graph algorithms and data structures for efficient city navigation and analysis, providing valuable insights for urban planning and connectivity optimization.

SKILLS

Languages: Python, C/C++, Julia, Java, SQL, Fortran, MatLab, Arduino

Developer Tools: Git, Solid Edge, VS Code, Jupyter, LaTeX

Frameworks: Numpy, Pandas, Matplotlib, PyTorch, TensorFlow, SkLearn and OpenCV

POSITIONS OF RESPONSIBILITY

Head of International Relations Cell of IITH

Inbound Head

May 2023 - May 2024

- To manage the logistics department of International students
- To arrange the visit of the International project Intern and professors

INTERNSHIP COORDINATOR (Office of Career Services (OCS))

To assist the students regarding the internships opportunities

June 2023 - April 2024

RELEVANT COURSEWORK

- Data Structures and Applications, Algorithms, DBMS
- Introduction to Programming, Linear Algebra, Applied Mathematics, Artificial Intelligence, Data Science Analysis, Computational Fluid Dynamics, Numerical Methods

ACHIEVEMENTS

Represented Hostel in Milan(The General Championship of IIT Hyderabad) in Cad Modelling Competition and Won 3rd Prize

Member Athletics in **NSO**(National Sports Organization)

State Level Silver Medalist in Karate

All India Maths Science Talent Examination: All India Rank 222 | School Rank 1 2016

Qualified Regional Mathematics Olympiad (RMO)) 2020

Represented School in **IUCAA(Inter-University Centre For Astronomy And Astrophysics) Quiz competition** 2018