Rushil Venkateswar

Computer Science & Engineering

Indian Institute of Technology Kharagpur

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Program	Institute	Year	CGPA/%
Dual Degree (BTech+MTech)	Indian Institute of Technology, Kharagpur	2025	8.89
ISC	Little Flower School, Jamshedpur	2020	96.25
ICSE	Little Flower School, Jamshedpur	2018	95.40

SCHOLASTIC ACHIEVEMENTS

- **Secured an All India Rank of 473 in JEE Advanced 2020 (out of 1,60,000 candidates).**
- **Secured an All India Rank of 1176 in JEE Mains 2020 (out of 1.12 million candidates).**
- **Qualified for KVPY Round 2 in SA Stream in 2019.**

PROJECTS

- **Students' Auditorium Management Software**, *(CS29202: Software Engineering Lab)* ○ *(group project)*
  - An auditorium management website which would run on Localhost (127.0.0.1) and allow the user to maintain a database of shows to be screened along with providing functionality for seat booking
  - OTP-based login for users of the software is supported
  - Implemented a website using Python Flask for back-end and Bootstrap for front-end
- **Time Series Forecasting**, *(Intra IIT Data Analytics)* ○ *(group project)*
  - Used multiple traditional models (ARIMA, SARIMA, XGBoost, LightGBM) and Deep Neural Network based models(Pytorch DeepAR, AWS Forecasting) for predicting a time series over 38 months of 1000 different products
  - Final model consisted of an ensemble method combining AWS and DeepAR
- **Instance Segmentation and Detection**, *(CS29202: Software Engineering Lab)* ○ *(self project)*
  - Developed a Tkinter based GUI to display bounding boxes or segmentation masks for the image selected
  - Used a pre-trained MaskRCNN model from Pytorch library to detect masks and bounding boxes on a given image
  - Plotted the generated masks and bounding boxes over the image using matplotlib
  - Created a python package from source code

TECHNICAL SKILLS

- **Programming & Scripting Languages**: C, C++, Java, Python, MATLAB
- **Tools & Libraries**: LaTeX, OpenCV, Pandas, Matplotlib, Numpy, scikit-learn, Pytorch, Git

RELEVANT COURSE WORK

CS21203: Algorithms-*I*	**CS29203**: Algorithms Laboratory
MA20008: Statistical Inference	**MA20205**: Probability & Statistics
CS20202: Software Engineering	**CS10003**: Discrete Structures
MA11003: Advanced Calculus	**MA11004**: Linear Algebra, Numerical and Complex Analysis

CERTIFICATIONS

- **Machine Learning** | *Stanford University* *(Nov'21-Dec'21)*
  - Learnt concepts of Machine Learning like Linear Regression, Logistic Regression, K-Means, SVMs using Matlab
- **Deep Learning Specialization** | *DeepLearning.AI* *(Dec'21-Apr'22)*
  - Learned Neural Architectures like CNNs, RNNs, LSTMs and Transformers using the Tensorflow framework and applied these to different real-world problems

POSITIONS OF RESPONSIBILITY & EXTRA-CURRICULARS

- **Associate Member** of **Business Club, IIT Kharagpur** *(Dec'20-Sep'21)*
  - Authored a **Whitepaper on XGBoost** ❦
  - Secured a top-5 position in an intra-club data analytics competition
  - Participated in an intra-club case study competition and guided newly inducted teammates
- **1st Position** in **National Science Day Quiz**, conducted by Gymkhana, IIT Kharagpur *(Feb'21)*
- **2nd Position** in **Science of Paper Folding**, conducted by Space Technology Students' Society, IIT Kharagpur *(Nov'21)*
- Secured **3186 Rank** out of more than 9000 teams in **Google HashCode 2022** *(Feb'22)*