



Mohit Kumar

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B.Tech - Computer Science and Engineering

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	8.65 (Current)	2021-Present
Senior Secondary	CBSE Board	95.6%	2021
Secondary	CBSE Board	97.2%	2019

EXPERIENCE

- MITACS Globalink Research Intern - Dalhousie University** May 2023 - Jul. 2023
Research Intern under Prof. Ahmed-Al Mallahi Nova Scotia, Canada
 - Developed an algorithm for automatic tuber grading based on size.
 - Various image processing techniques were applied to solve the challenges like motion blur, occlusion, etc. along with detailed analysis of results through various metrics.
 - Used various Deep Learning frameworks like TensorFlow and PyTorch.
 - Used detectron2 for sampling which reduced time from 12s to 900 ms.
 - The system has been validated under real-world farm conditions at McCain's Farms of Future(FoF), Canada.

PROJECTS

- Stock Predictor** Feb. 2023 - Mar. 2023
First Prize Winner in Inter Hostel Technical Competition Kriti Github
 - Made a model that used current stock values to predict future ones using linear regression and stochastic LSTM
 - Analysis was done using open, low, high of the current day's stock to predict the next day's close.
- Customer Propensity Modelling** Jun. 2023 - Jun. 2023
Self Project Github
 - Made a propensity model that attempts to predict the likelihood that visitors to a website will buy an item or not.
 - Used a lot of features like on which buttons someone clicks while browsing and Naive Bayes Classifier for prediction.
- Car Price Predictor** Jul. 2023 - Jul. 2023
Self Project Github
 - Used Random Forest to predict the price of and old car depending of various features.
 - Successfully deployed the model using python app and basic html.

KEY COURSES TAKEN

- Computer Science:** Data Structures and Algorithms, Computer Architecture and Organization, Database Management Systems, Formal Languages and Theory of Computation
- Mathematics:** Discrete Maths, Probability & Random Processes, Linear Algebra, Basic Calculus, Number Theory
- MOOC's:** Deep Learning Specialisation and Machine Learning Specialisation (by deeplearning.ai)

ACHIEVEMENTS

- Kriti - Inter Hostel Tech Meet,** Received Gold Medal in the Stock Predictor High Prep Event. 2023
- HDFC ECS Scholar,** Selected among the top 100 undergraduate students from India. 2023
- Shraman Foundation Scholar,** Selected among 10 undergraduate students from IIT. 2022
- All India Rank 1206,** Joint Entrance Examination Advanced 2020 among 0.25 million shortlisted candidates. 2022
- NTSE Scholar,** Selected among the top 1000 students from India. 2019

TECHNICAL SKILLS

– **Programming:** C/C++, Python

– **Operating Systems:** MacOS, Linux, Windows

* Elementary proficiency

EXTRACURRICULARS

- **Finance and Analytics Quiz**, 1st position in Swaraj-75 Quiz organized by FEC IITG and CnA IITG.
- **National Chess Champion**, 4th position in India and 3rd position in Haryana State Chess Championship
- **State Quizzes**, Won State Rank 1 in GK Quiz, Science and Maths Quiz, and Road Safety Quiz

POSITIONS OF RESPONSIBILITY

- **Scrum Master**, AIES Group MITACS, Led team of interns for 3 Scrum Meetings.
- **Co-ordinator**, MMC Manas, IIT Guwahati

May. 2023 - Jul. 2023

Aug. 2022 - Apr. 2023