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EDUCATION

Degree/Certificate	${\bf Institute/Board}$	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, Canada

May 2023 - Jul. 2023

Research Intern under Prof. Ahmed-Al Mallahi

Nova Scotia, Canada

- Developed a Mask R-CNN Architecture based algorithm developed by Facebook AI Research for segmenting tubers.
- Wrote python script using OpenCV (CV2) library to get image by frame-grabber.
- To prevent defects from occlusion and motion blur, a separate Machine Learning model was devised for sampling using RandomForestClassifier(). Deep Learning frameworks like PyTorch and TensorFlow were used for devising features like concavity and solidity and 95% mIoU, 92% Recall and 94% Precision was observed by the model.
- The system improved old algorithm from 12s to 900ms and is used by 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 for 4 companies.

• Customer Propensity Modelling

Jun. 2023 - Jun. 2023

Self Project

Githul

- Made a propensity model that attempts to predict the likelihood that visitor to a website will buy an item or not.
- Used Naive Bayes Classifier for predicting today's propensity using yesterday's and features like button clicks.

• Car Price Estimator

23 - Jul. 2023

Self Project

Github

- Used Random Forest Regressor to predict the price of an old car and RandomizedSearchCV for Cross-Validation.
- Successfully deployed the model using Python app and basic HTML and got MAE of 0.88 and MSE of 3.97.

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

 $\bullet \ \, \textbf{Kriti} \, \textbf{-} \, \textbf{Inter Hostel Tech Meet}, \\ \textbf{Received Gold Medal in the Stock Predictor High Prep Event}.$

2023

 \bullet HDFC ECS Scholar, Selected among the top 100 undergraduate students from India. 2023

• Shraman Foundation Scholar, Selected among 10 undergraduate students from IIT.
• All India Bank 1206 Lint Entrance Examination Advanced 2020 among 0.25 million shortlisted cane

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