

Mehdi Hossain

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Professional Summary

Passionate aspirant and 4th year B. Tech student in the field of Computer Science and Technology with intuitive problem-solving skills. Looking to start a career as Software Engineer with a reputed firm driven by technology.

Academics

Qualification	Institute	Board / University	Year	% / CGPA
B. Tech (CSE)	St. Thomas' College of Engineering and Technology, Kolkata	MAKAUT	2018-22	9.42 CGPA (Till 6 th Semester)
XII	Birla Bharati, Kolkata	CBSE	2018	88.2%
X	Birla Bharati, Kolkata	CBSE	2016	9.8 CGPA

Internships

Nomura Research Institute Financial Technology	September '21 - Present
<ul style="list-style-type: none">Working as a student Intern in Nomura Research Institute Financial Technology.	
Integrated Test Range, DRDO	April '21 – May '21
<ul style="list-style-type: none">Explored existing Object Detection and Tracking techniques for Unmanned Aerial Vehicles tracking.Designed a motion-model to predict the movement of the object of interest in future time-stamp.Designed a Particle Filter for object tracking and compared it with Kalman and Bayesian Filter.Designed the necessary interface for Object Detector model to integrate particle filter and motion-model for Real-Time Drone Detection and Tracking.	

Projects

Zooskersky	Python
<ul style="list-style-type: none">Developed front-end UI for software that gathered information from over 100+ websites from the surface net regarding wildlife trafficking.Analysed the data collected to form graphs showing the rise and fall of demand of various poached animal parts.Using the data to build an application where the user can search for a keyword in English as well in vernacular language to present the current demand and active sites selling the poached animal part.Achieved the position of Winner of ZooHackathon 2019.Use Case of the application - activists looking for a one-stop platform for tracking illegal trading of animal parts.	
Sign Language Live Predict	Python
<ul style="list-style-type: none">Developed an application to aid people with hearing imparity. This application converts American Sign Language to normal text (along with speech) and vice-versa.The software had a front-end (designed using the PyQt framework) along with supporting features of Google API for text-to-speech along with speech recognition features.A Hand-Gesture Recognition Model was used to convert American Sign Language to English text, per frame.Recognition as one of the top 10 Finalist of ACM India East Hackathon.	

Achievements & Certificates

• Top Finalist of ACM India-East Hackathon organized by Association of Computing Machinery	February, 2020
• Winner of ZooHackathon 2019, Regional organized by World Wide Fund, India	November, 2019
• Mathematics for Machine Learning: Multivariate Calculus, Linear Algebra (Coursera)	September, 2020
• Deep Learning Specialization (Andrew NG), by deeplearning.ai (Coursera)	August, 2020
• The Joy of Computing using Python (NPTEL course)	April, 2020
• An Introduction to Programming Through C++ (NPTEL course)	April, 2020
• Problem solving through Programming in C (NPTEL course)	April, 2019

Technical Skills and Hobbies

<ul style="list-style-type: none">Programming Language: Java C, C++, PythonObject Oriented ProgrammingData Structure and AlgorithmDBMS	<ul style="list-style-type: none">Video GamesHackathons and Competitive CodingUI designing
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<ul style="list-style-type: none">Neural Network and CNN	
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