

# 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	9.4 CGPA (Till 6 <sup>th</sup> Semester)
XII	Birla Bharati, Kolkata	CBSE	2018	88.2%
X	Birla Bharati, Kolkata	CBSE	2016	9.8 CGPA

## Internships

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

## Projects

<b>Zooskersky</b>	<b>Python</b>
<ul style="list-style-type: none"><li><b>Developed</b> front-end UI for software that gathered information from over 100+ websites from the surface net regarding wildlife trafficking.</li><li><b>Analysed</b> the data collected to form graphs showing the rise and fall of demand of various poached animal parts.</li><li><b>Using</b> 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.</li><li><b>Achieved</b> the position of Winner of ZooHackathon 2019.</li><li><b>Use Case of the application</b> - activists looking for a one-stop platform for tracking illegal trading of animal parts.</li></ul>	
<b>Sign Language Live Predict</b>	<b>Python</b>
<ul style="list-style-type: none"><li><b>Developed</b> an application to aid people with hearing imparity. This application converts American Sign Language to normal text (along with speech) and vice-versa.</li><li>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.</li><li>A Hand-Gesture Recognition Model was used to convert American Sign Language to English text, per frame.</li><li><b>Recognition</b> as one of the top 10 Finalist of ACM India East Hackathon.</li></ul>	

## Achievements & Certificates

<ul style="list-style-type: none"><li>Top Finalist of ACM India-East Hackathon organized by Association of Computing Machinery</li><li>Winner of ZooHackathon 2019, Regional organized by World Wide Fund, India</li><li>Deep Learning Specialization (Andrew NG), by deeplearning.ai (Coursera)</li><li>The Joy of Computing using Python (NPTEL course)</li><li>An Introduction to Programming Through C++ (NPTEL course)</li><li>Problem solving through Programming in C (NPTEL course)</li></ul>	<ul style="list-style-type: none"><li>February, 2020</li><li>November, 2019</li><li>August, 2020</li><li>April, 2020</li><li>April, 2020</li><li>April, 2019</li></ul>
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## Technical Skills and Hobbies

<ul style="list-style-type: none"><li>Programming Language: Java C, C++, Python, HTML/CSS</li><li>Object Oriented Programming</li><li>Data Structure and Algorithm</li><li>DBMS</li><li>Neural Network and CNN</li></ul>	<ul style="list-style-type: none"><li>Video Games</li><li>Hackathons and Competitive Coding</li><li>UI designing</li></ul>
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