



Academic Details			
Year	Degree	Institute	CGPA/Marks(%)
2023	M.Tech Computer Science and Engineering(2Y/NIS)	IIT Hyderabad	7.79
2020	B.Tech in Computer Science and Engineering	Academy of Technology	8.72
2015	XII (West Bengal Council of Higher Secondary Education)	Gyan Bharati Vidyapith	70.2%
2013	X (West Bengal Board of Secondary Education)	Gyan Bharati Vidyalaya	67.85%

Projects

IITH Projects:

- Suzuki V2X Project - Perturbation Attacks Mitigation(June 2022 - Present)** : Mitigating Perturbation Adversarial Attacks for safety of Autonomous Driving Vehicles using Mobile Edge Computing(MEC) technology and Deep Learning object detection models along with Singular Value Decomposition(SVD).
- Suzuki V2X Project - CAM for Maximum Sensory field (July 2022 - Present)** : Implementing a Cooperative Awareness Message(CAM) service for optimizing the number of vehicles and resources for maximum field of sensing such that vehicles and roadside units are know who should transmit Information.
- Motion Aware Attention (M2A) for Video Action Recognition (Apr 2022 - Present)**: Worked on implementing a Computer Vision mechanism that merges Motion Mechanisms with Attention Mechanisms that helps in better action recognition in videos.
- Object Recognition using Involution(Mar 2022 - May 2022)**: Redesigned YOLO algorithm for object detection by plugging in Involution operation to get reduced complexity and optimized space requirements for the PASCAL-VOC dataset.

B.E Projects:

- Real time object detection using Computer Vision(Aug 2019 - Mar 2020)**: Implementing a deep learning based approach for object detection using R-CNN, a region based CNN mechanism to detect objects in real time scenario.

Positions of Responsibility

Associate Software Engineer - Tata Consultancy Services (Oct, 2020 - June, 2021)

Worked as an ASE in TCS Kolkata for 9 months with Walmart USA as client project managing Production and Development Server side databases and load jobs and played an important role in database management

Teaching Assistant for Introduction to Programming Course

Jan 2022 - May 2022

Teaching Assistant for Advanced Computer Networks Course

Aug 2022 - Present

Skills

Programming Languages Known:

- C/C++ (Competitive Programming)
- Python (Machine Learning, Deep Learning)
- SQL, PL/SQL (Database Management)
- JAVA (Object Oriented Programming)
- HTML, CSS, JavaScript (Frontend Programming)

Data Science :

- Machine Learning
- Computer Vision
- Deep Learning
- Numpy, Pandas, Matplotlib

Relevant Courses

Academic Courses:

- Advanced Data Structures and Algorithms
- Foundations of Machine Learning
- Visual Computing
- Deep Learning
- Advanced Computer Networks

Certified Courses :

- C Training and Assessment by Spoken Tutorial, IIT Bombay
- JAVA Training and Assessment by Spoken Tutorial, IIT Bombay
- Infosys Certified Software Programmer (Python)
- Machine Learning A to Z : Hands on Python by Udemy