Astitva Veer Garg

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EDUCATION

SRM Institute of Science and Technology, Chennai   CGPA: 9.6
Bachelor of Technology in Computer Science, Specialization in AI and ML   *Expected 2025*

EXPERIENCE

AI ML Research and Development Intern   June 2023 – August 2023
IRDE, DRDO   *Onsite*
- As an AI ML Intern in IRDE DRDO, I had the opportunity to work on cutting-edge AI and ML technologies that are being used to develop new defense systems.
- I learned about the importance of national security and how AI and ML can be used to protect our country. I also learned about the challenges that we face in ensuring national security in the 21st century.
- I learned a lot about AI and ML, national security, and problem-solving. I also had the opportunity to work with a team of experts and make a contribution to something important.

Research Intern   Feb 2023 – Present
Samsung R&D Institute India   *Remote*
- Developing Camera Solutions and Designing a light weight binary classifier which can differentiate an image completely filled up with patterns from images which have centre of attractions
- Exploring classical CV based algorithms and use DIP techniques to find out patterns in an image
- Compare deep learning models and classical CV (opencv) models and benchmark model performances

DevOps Intern   May 2022 – July 2022
F13 Technologies   *Remote*
- Gained hands-on experience working with various cloud technologies such as Amazon Web Services (AWS), learn how to deploy and manage applications in the cloud, configure virtual machines, set up network and security features, and utilize cloud storage solutions.
- I worked closely with other members of the cloud team, including developers, system administrators, and project managers.

Next-Tech Lab   March 2022 – Present
SRM Institute of Science and Technology   *Chennai, TN*
- Collaborate with a team of researchers and industry professionals on projects focused on AI/ML and deep learning.

- Conducted data analysis and created predictive models using Python and machine learning libraries such as TensorFlow and Scikit-learn.
- Assisted in mentoring new lab members and providing guidance on technical skills and research methodology.

PROJECTS

Sehyog | *Python, Flask, Tensorflow, Keras*
- Developed a full-stack web application using with Flask serving a REST API with React as the front-end
- Implemented a Disease Detection Model using Naive Bayer's Algorithm on a vast data set for improved accuracy
- Designed and Developed a Medicare ecosystem for hospitals, doctors and patients.

Object Detection By Faster RCNN | *Python, Tensorflow, Keras, Open-CV, Git*   February 2023
- Implementing Faster R-CNN object detection required a strong understanding of deep learning concepts such as convolutional neural networks (CNNs), object detection algorithms, and loss functions.
- Object detection required large amounts of labeled data, and preprocessing was a crucial step for successful implementation.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, Matlab
Frameworks: Tensorflow, PyTorch, MongoDB, Flask, Fast-API, Rest-API, Qiskit, Node JS
Developer Tools: Git, AWS Cloud, Google Cloud Platform, MongoDB Compass, Postman
Libraries: pandas, NumPy, Matplotlib, OS, Open-CV, Scikit-learn