Shinit Dinesh Shetty

GitHub | LinkedIn | Portfolio | shinitshetty@gmail.com | +91 (845)-098-4151

Education

Masters in Computer Science, North Carolina State University
August 2023 — May 2025
Courses - Data Structures and Algorithms, Software Engineering

Bachelors of Engineering in Computer Engineering, SIES Graduate School of Technology (CGPA - 9.00/10)
August 2019 — June 2023
Courses - Analysis of Algorithms, Machine Learning, DBMS, Distributed Systems, Data Structures, Big Data Analysis, Deep Learning

Work Experience

Web Developer Intern, Prishni.co
June 2021 — August 2021

- Created and implemented backend part of website using django framework of python.
- Created database and connected it with website.
- Hosted website on internet using Amazon Web Service.
- Integrated Razorpay Payment portal with website for online payments.
- Optimised website for better performance with improved loading speed and reduced server response time by 20%

Full Stack Web Developer, ChronicleHouse
June 2022 — July 2022

- Made a website that creates image card.
- Developed the frontend of website using HTML, CSS and JavaScript.
- Created the backend of the website using Django.
- Integrated Stripe payment portal.

Machine Learning Engineer, ChronicleHouse
August 2022 — October 2022

- Used transformers and natural language processing for creating AI Writing Assistant.
- Used frameworks like TensorFlow, Keras and libraries like Huggingface.
- Model helped writing articles faster by 30%.

Academic and Professional Projects

Cervical Spine Fracture Detection
August 2022 — May 2023

- Created a solution to automate the process of finding the severity of the trauma that occurred.
- It is a 2 part solution, first part will be used to detect the section of cervical spine from C1 - C7 which is done by using U-Net, and encoder as EfficientNet, giving an accuracy of 95.19%.
- Used YOLO5 model to detect fractures in the bones, which has an accuracy of 97%.

Mask Detector
Bugsquash | January 2021 — February 2023

- Developed a model to detect whether a person in a live video feed is wearing face mask or not in order to prevent the spread of COVID-19
- Used keras and tensorflow to build a model over pre-trained mobilenet_v2 model.
- The developed model provides with an accuracy of 92%.

Malware Detection using Binary Image Representation
August 2021 — April 2022

- Created a custom dataset for the purpose of training.
- Used SMOTE to balance the imbalance between 32 categories in dataset.
- Developed a deep learning architecture which helps detection of malware by using feature extraction for image categorisation.
- The developed model provides with an accuracy of 92.09%.

Geofencing Using IoT
Mastek | August 2021 — April 2022

- Developed a web-based application that helps in monitoring covid affected patients in a hospital, using arudino, django and javascript.
- Created an IOT device used for indoor tracking of patients.
- Solution provided 15% better accuracy than other solutions in the hackathon.

Key Skills

Proficient: Python, PyTorch, TensorFlow, Keras, Flask, SQL, OpenCV, C++, C, Django, AWS, JavaScript, Docker

Publications

1. IEEE International Conference on Power, Instrumentation, Control and Computing (PICC - 2023) :- Research Paper Link
2. International Conference on Recent Trends in Multidisciplinary Research and Innovations (ICRMIR - 2023, Page 57) :- Research paper Link

Achievements

3rd prize in ISTE-approved National Level Project Competition - DJASCII

Runner up in National Level Project Competition Innovations 2023 conducted by The Computer Society of India.

2nd prize in TechXter 12.0, a national level Technical Paper Presentation Competition conducted by IETE.