

# Shinit Dinesh Shetty

[GitHub](#) | [LinkedIn](#) | [Portfolio](#) | [shinitshetty@gmail.com](mailto:shinitshetty@gmail.com) | +91 (845)-098-4151

## Education

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### 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

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### 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

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### 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 arduino, 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

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

## Publications

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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](#)