# Shinit Dinesh Shetty

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## Education

**Masters in Computer Science, North Carolina State University**
August 2023 — May 2025
sshetty9@ncsu.edu
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
shettyshinit19@siesgst.ac.in
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

- Developed and implemented Django backend for seamless functionality
- Configured a robust database that seamlessly integrates with the website
- Hosted the website on AWS for global accessibility and improved performance
- Integrated Razorpay for streamlined and secure online payments
- Optimized website for faster loading speed and 20% reduced server response time

**Full Stack Web Developer, ChronicleHouse**
June 2022 — July 2022

- Created dynamic website for customizable image cards.
- Utilized HTML, CSS, and JavaScript for intuitive frontend.
- Leveraged Django for powerful and scalable backend for exceptional user experience.
- Integrated secure Stripe payment portal for payments

**Machine Learning Engineer, ChronicleHouse**
August 2022 — October 2022

- Created an advanced AI Writing Assistant using transformers and natural language processing
- Utilized popular frameworks like TensorFlow and Keras, along with Huggingface libraries
- Improved article writing speed by up to 30%, revolutionizing the content creation process for users.

## Academic and Professional Projects

**Cervical Spine Fracture Detection**
August 2022 — May 2023

- Developed an innovative solution for automating trauma severity assessment in medical cases
- Utilized U-Net with EfficientNet encoder to detect cervical spine sections with 95.19% accuracy
- Integrated YOLO5 model to detect bone fractures with 97% accuracy, improving healthcare practices.

**Mask Detector**
Bugsquash | January 2021 — February 2023

- Developed a crucial face mask detection model for live video feeds, contributing to global COVID-19 prevention efforts.
- Utilized Keras and TensorFlow frameworks, leveraging MobileNet_V2 as the foundation, to enhance accuracy.
- Achieved an impressive 92% accuracy, ensuring reliable detection in public places, transportation, and healthcare facilities.

**Malware Detection using Binary Image Representation**
August 2021 — April 2022

- Developed malware detection using custom dataset curated for 32 categories.
- Addressed class imbalance using SMOTE algorithm for improved accuracy.
- Created deep learning architecture with feature extraction for precise image categorization.
- Achieved impressive 92.09% accuracy, contributing to cybersecurity with robust malware detection.

**Geofencing Using IoT**
Mastek | August 2021 — April 2022

- Innovated a web-based application for efficient monitoring of COVID-affected patients using Arduino, Django, and JavaScript.
- Pioneered an IoT device for precise indoor tracking, seamlessly integrated with the web app to optimize patient monitoring and resource allocation in hospitals.
- Demonstrated 15% higher accuracy than competitors in a competitive hackathon, highlighting the effectiveness and reliability of the solution in managing COVID patients.

## 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 winner in the ISTE-approved National Level Project Competition - DJASCII.

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

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