RUTWIK SARAF

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Education

University of Florida 05/2025

Master of Science in Computer Science

GPA: 3.44/4.0

Relevant Coursework: Advanced Data Structures, Software Engineering, Distributed Operating Systems, Human-Computer Interaction, Database Management Systems

SCTR'S Pune Institute of Computer Technology, University of Pune

05/2023

GPA: 9.22/10.0

Bachelor of Engineering in Information Technology

Technical Skills

- 1. Programming Languages: C++, Java, Python, HTML, CSS, JavaScript, TypeScript, SQL
- 2. Tools/Frameworks: Bootstrap, React, Angular, NodeJS, Flask, Django, Flutter, Android Studio, REST, Git
- 3. Platforms: Oracle SQL Developer, Android Studio, MacOS, Windows, JIRA, Github, Jupyter

Experience

Voloridge Investment Management (Jupiter, Florida)

05/2024 - 08/2024

Trading Engineer Intern

- Developed and integrated a trading widget for the Workspace Manager, an application used by traders at the firm, to enhance user experience. Utilized **React** and **TypeScript** to build a responsive and user-friendly interface. Implemented robust data fetching and request handling through APIs and employed **Zod** for rigorous user input validation.
- Collaborated closely with traders and product teams to gather requirements, address feedback, and deliver a solution tailored to user needs. Leveraged **JIRA** and **Kanban** methodologies to efficiently manage and track project tasks, ensuring timely completion of deliverables.

JyoSH AI (Pune, India)

08/2022 - 06/2023

AI Intern

- Pioneered the development of a deep learning module and seamlessly integrated it into 2 platforms for an IoT and AI-powered agricultural Robot. Leveraged a microscopic camera for disease identification in cotton plants using Computer Vision techniques.
- Conducted a comprehensive comparative analysis of object detection models including VGG16, Resnet50, and Inception V3, achieving accuracies of 99.58, 85.03, and 95.38 percent respectively. This optimization significantly accelerated disease detection from leaf images. Successfully deployed the module on the Robot using Jetson Nano.
- Published a paper based on the research titled "Disease and Pest Detection in Crops using Computer Vision: A Comprehensive Study." in the 2023 European Chemical Bulletin.

Computational Linguistics Lab, PICT (Pune, India)

05/2022 - 02/2023

Research Intern

- Fabricated a code-mixed dataset consisting of YouTube comments and WhatsApp chats accounting for 1009 sentences.
- Identified every sentence with language ID, POS tag, and sentiment(for various applications), annotated and preprocessed it. Performed sentiment analysis with an accuracy of 67.7 percent on the dataset using SVM and Naive Bayes models.
- Published a paper based on the research titled "Analysing The Sentiments Of Marathi-English Code-Mixed Social Media Data Using Machine Learning Techniques" at the 2023 ESCI IEEE Conference.

Projects

The Byte Brigade | LLM, VectorDB, Flask, OpenAI, Angular, Bootstrap

10/2023 - 11/2023

- Revamped the website's user experience through the integration of conversational **GenAI**, enhancing navigation efficiency via a chatbot. Leveraging this chatbot technology significantly improved the onboarding experience for new users, reducing the number of user interactions by 60 percent.
- Implemented an adaptive user interface that dynamically adjusts in response to user queries within the chatbot, ensuring a tailored and interactive user experience. Our team was selected among the top 5 finalists of the Gator-AI Hackathon.

AGRO.AI | Python, React, Django

07/2022 - 08/2022

- Developed a machine learning and **React-Django**-based web application that helps predict crop production in a particular area by considering 4 factors temperature, rainfall, humidity, and soil type.
- Remodeled the app to enable a farmer to calculate the total yield and estimate revenue to be generated.

Achievements and Certifications

- 1. My team achieved an All India Rank 6 at the ABU Robocon 2020 Competition (PR and Marketing team lead)
- 2. Was among the top 20 projects for Rackathon 2020 (Hackathon organized by Rakuten India) finale out of 6000+ teams
- 3. Competitive Programming Course by Girlscript Foundation (02/2021-03/2021)