

Aniruddha Sankoli

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EDUCATION

The Ohio State University

MS Electrical and Computer Engineering;

GPA: 3.54/4.0

Columbus, OH

Aug. 2022 – Present

Sri Jayachamarajendra College of Engineering

B.E Electrical and Electronics Engineering;

GPA: 8.47/10.0

Mysore, India

Aug. 2015 – June 2019

EXPERIENCE

The Ohio State University

July 2023 – Present

Graduate Research Associate | Python, R, Neural Networks, Deep Learning, LLM, Pytorch, SQL

Columbus, USA

- Leveraged DNN, gradient boosting and auto-encoders for feature selection to improve correlational study by 4%.
- Developed machine learning pipeline training a BERT model, achieving a 6% increase in categorization accuracy.
- Spearheaded an ETL process leveraging Spark SQL for data processing and optimization in the PubMed categorization workflow on an Rshiny Dashboard.

Schneider Electric

July 2019 – July 2022

Data Engineer | Python, JS, Angular, Django, node.js, RobotFramework, JIRA, Jenkins

Bengaluru, India

- Crafted real-time communication services with Spring Boot for instant energy reporting on the Dali device portal.
- Analyzed home automation energy usage with Spark SQL in Azure Databricks, identifying and outlining remedies that reduced energy consumption by 15%
- Built RESTful APIs and Swagger documentation for system configuration, management, and real-time monitoring on a unified platform, increasing system efficiency by 30%.
- Created a Django-based ML tool to classify true failures in automation reports, boosting QA precision by 80% and reducing rework by 50%.
- Implemented data-driven Augmented Reality project for customer demos with FastAPI, leveraging an Azure MySQL database for robust product catalog management, improving demo engagement by 60%.

Intern

Jan 2019 – June 2019

Schneider Electric | Python, Selenium, RASA, Modbus, CAN

Bengaluru, India

- Oversaw Clipsal Smart home automated testing, including fuzzing test cases and code reviews, improving team collaboration and QA standards.
- Deployed a Django-integrated RASA-NLU chatbot with Haystack and RoBERTa, saving 20 man-hours per week in customer troubleshooting
- Designed Python scripts for C-Bus and Dali protocol validation, improving Schneider Electric's product quality, reducing bug-fix time, and boosting test throughput.

PROJECTS

AlphaZero AI for TicTacToe & ConnectFour

Jan. 2024 – April 2024

- Orchestrated the creation of an AI gaming platform with AlphaZero for TicTacToe and ConnectFour, merging deep learning and Monte Carlo Tree Search for optimal AI functionality
- Developed a ReactJS TicTacToe game, enhancing user engagement and showcasing AI strategy

Student Guide: Course Selection and Availability App

Nov 2023 – Dec 2023

- Developed a Streamlit app utilizing PyPDF2, sentence-transformers, and FAISS for efficient course catalog processing and query handling.
- Implemented a user-friendly interface to query course options and semester schedules dynamically.

HPC Application Runtime Predictor

May 2023 – July 2023

- Supported the HARP project to enhance HPC resource allocation by profiling scientific workflows in various domains.
- Created and implemented a protocol to select optimal regression models and boosting predictive accuracy

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, R, Flutter

Developer Tools: Git, Docker, Kubernetes, Jenkins, PowerBI, Tableau, AWS Cloud Services, Maven, Splunk

Skills: Team player, Strong Communicator, Agile, MLFlow, Django, Flask, TensorFlow, Linux, React, FastAPI

Coursework: RL, DBMS, Data Mining, Intro to Big Data, Robotics, ML, Project Management