

Ms SWAROOP

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Experience

Samsung

Gen AI Intern

Present

Bangalore, KA

- Developing internal frameworks for fine-tuning large language models (details confidential).

Karunadu Technology

Sep 2024 – Oct 2024

Machine Learning Intern

Bangalore, KA

- Performed comprehensive data analysis and trained machine learning models using various algorithms.
- Deployed high-accuracy models as fully functional web applications after rigorous testing and validation.
- Developed and integrated a production-ready application incorporating the tested ML model.
- Improved model accuracy by 70% and reduced training time by 10% through advanced fine-tuning techniques.

Projects

MSRIT Facilities Booking System | *FastAPI, React, MongoDB*

- Developed a facility slot booking platform for MSRIT, inspired by BookMyShow, providing real-time slot reservation after secure login.
- Implemented slot freezing for missed reservations and automated QR code generation for authentication.
- Built an admin approval system to verify bookings and manage slot availability.

AIBOM - AI Bill Of Materials | *Python, FastAPI, React*

- Designed and implemented a real-time AIBOM solution for automated Bill of Materials (BOM) generation.
- Developed a robust backend with FastAPI and an interactive frontend using React.
- Integrated PowerShell for security vulnerability scanning and model analysis to enhance system security.
- Implemented a DFS algorithm to efficiently process ZIP archives for comprehensive BOM generation.

Sentiment GPT | *Python, Hugging Face Transformers, GPT*

- Built a sentiment analysis application using Hugging Face Transformers for accurate sentiment classification.
- Designed an intuitive user interface to enable seamless user interaction and sentiment input.
- Integrated a GPT model to analyze text and classify sentiment as positive, negative, or neutral.

Recipe Management System | *Django, Python, CSS, SQL*

- Built a secure recipe management web application using Django, enabling users to store, update, and organize personal recipes.
- Implemented complete CRUD operations for streamlined recipe management.
- Integrated user authentication and role-based authorization to ensure secure access control.
- Designed an intuitive and responsive user interface for enhanced usability.

Research & Publications

- Secure and Efficient CI/CD Deployment in Cloud Platforms: Bridging Hypervisor Performance and Pipeline Security
- Automating AI Bills of Materials (AIBOMs): A Framework for Secure AI System Transparency and Compliance

Technical Skills

- **Languages:** Python, JavaScript, C++
- **Frontend:** HTML, CSS, Bootstrap
- **Backend:** Django, SQL
- **Cloud:** AWS

Achievements

- Ranked 1445 in a global LeetCode contest.
- Secured 78th rank (non-GATE) in M.Tech entrance examinations.
- Qualified JEE Mains in 2020.

Education

Ramaiah Institute Of Technology

2024-2026

MTech in Computer Science and Engineering

Cgpa:9.04

RR Institute Of Technology

2020-2024

B.E in Computer Science and Engineering

Cgpa:8.69