SHAMBU PRASAD JAKKA

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(Hackerrank) | (Leetcode) |

EDUCATION

Pragati Engineering College   **2021-2025**

Bachelor of Technology in Information Technology   Surampalem, India

Current CGPA: (8.44/10)

EXPERIENCE

Infosys Springboard   **April – June 2024**

AI Intern

- OpenAI: Utilized OpenAI's powerful models to power the natural language understanding and generation capabilities of the chatbot.
- Web Scraping: Integrated web scraping techniques to gather real-time data from Infosys websites, ensuring the chatbot could provide up-to-date and relevant information.
- Qdrant Vector Database: Employed Qdrant, a vector search engine, to optimize the storage and retrieval of complex AI model data, improving the chatbot's performance and accuracy.
- AI Models: Designed and deployed custom AI models tailored to the specific needs of the chatbot, enhancing its ability to understand and respond to user queries with high precision

TECHNICAL SKILLS

- **Programming**: C | java | Python

- **Tools**: Visual Studio Code

- **Web**: HTML | CSS | Angular

- **Cloud & Devops** : AWS (VPC Peering), Azure (AZ-900), Google Cloud (ACE), Load Balancing, Cloud Networking (VPC)

- **Development:** Backend Development , Asp.net ,Sql

- **Databases**: SQL,MySql

- **OS & Networking**: Basic Linux Shell, DNS, HTTP/HTTPS, TCP/UDP, IP Routing, Load Balancing Concepts

- **Other**: Artificial Intelligence, Qdrant, OpenAI, Web Scraping

PROJECTS

AWS Mini Project

- Established VPC peering connections within AWS to connect two VPCs.

- Configured networking components including subnets, routing tables, and security groups to simulate scalable infrastructure.

Infosys Chatbot Developement

- Developed a chatbot using OpenAI's GPT models and web scraping to provide dynamic, real-time responses.

- Integrated Qdrant as a vector database for semantic search using embeddings.

- Engineered prompts and custom AI model logic for domain-specific query handling.

Book Management REST API

- Developed a RESTful API using Node.js, Express.js, and MongoDB for managing a book collection. Implemented endpoints for creating, reading, updating, and deleting book records, each containing title, author, and publishYear. Used Mongoose for schema definition and database operations, and structured the project with modular routing and proper error handling for maintainability and scalability. Configured middleware to handle JSON parsing and integrated environment-based configuration for server and database management.

Angular Todo List Application

- Designed and developed a dynamic and modular Todo List application using Angular 16+ and Typescript. Implemented core functionality including real-time todo management, search filtering, and dynamic UI behavior using Angular signals and custom directives. Developed reusable components (todo-item, counter, greeting, header) and utilized Angular services for data handling via RxJS. Applied custom pipes and directives to enhance UX and maintain clean, scalable architecture.

Python Projects

- Developed interactive and functional Python applications, including a **QR Code Generator** for creating custom QR codes, a **Dice Rolling Simulator** for simulating dice outcomes, a **Number Guessing Game** for user interaction, a **Rock-Paper-Scissors Game** using logical conditions, an **ATM System** for basic banking operations, and a **Car Showroom Management System** for managing inventory and sales. These projects demonstrate problem-solving, creativity, and proficiency in Python programming

ACCOMPLISHMENTS

- Secured 1st rank in second semester(Academic Acheievement)
- Served as President of the Cloud Computing Club at college.
- Represented as a team in smart india hackthon at level 2.

ADDITIONAL CERTIFICATIONS

- Java Programming: Complete Beginner to Advanced, Udemy
- Cloud Computing, NPTEL
- Microsoft Certifications: AI-900,AZ-900,DP-100, DP-600, AI-102
- Associate Cloud Engineer Certification, Google Cloud
- Infosys Springboard Certifications: AI Primer Certification, Artificial Intelligence foundation certification
- AWS Cloud Practitioner ,AWS

VOLUNTEERING

- Microsoft learn student ambassador(November 2023-present)
- NSS Volunteer(August 2023-present)

INTERNSHIPS

- AICTE Virtual Internship: AWS AIML
- Infosys Springboard Internship

LANGUAGES

- English
- Telugu

INTERESTS

- Active cricket player with a passion for teamwork and strategy.
- Avid reader of novels, fostering creativity and critical thinking.
- Music enthusiast, appreciating diverse genres to stay inspired.
- Film aficionado, exploring storytelling techniques and visual creativity.
- Tech enthusiast, keenly following emerging trends and innovations in technology.