Bommisetty Swathi

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○ github.com/bommisetty-swathi   ⟨ https://leetcode.com/u/bommisettyswathi/

HR https://www.hackerrank.com/profile/bommisettyswathi   🏆 https://www.codechef.com/users/bommisettyswat

SUMMARY

An AI specialist with a strong background in Python, SQL, OOPS, Machine Learning, and AWS. Experienced in developing innovative projects and analyzing complex datasets using various programming languages and tools. Cooperative and creative in approach, utilizing engineering methods to solve complex problems. Skilled in time management, ensuring deadlines are met and high-quality results are delivered.

SKILLS

Python │ **Data Structures and Algorithms** │ **OOPS** │ **Java** │ **C** │ **C++** │ **JavaScript** │ **Operating Systems** │ **Kotlin** │ **SQL** │ **AWS** │ **Data Mining & Analysis** │ **Machine Learning** │ **Natural Language Processing** │ **Generative AI** │ **Deep Learning** │ **Software Engineering** │ **HTML** │ **CSS** │ **Tools** (Excel, Powerpoint, Git)

PROJECTS

Cleaner App for Android
- Developed a comprehensive, user-friendly Cleaner App for Android, offering features like junk file removal and storage management to optimize device performance.
- Utilized modern Android development techniques to create a fast and efficient app, resulting in a successful launch of a free and open-source solution for effective storage management on Android devices.

Prediction of Chronic Kidney Disease using Different Machine Learning Models
- Developed different machine learning algorithms and achieved 88% accuracy in early detection of Chronic Kidney Disease (CKD) risks through analysis of medical data, offering a valuable tool for healthcare professionals.
- Utilized various models and techniques to predict CKD, providing accurate and timely identification to mitigate adverse health outcomes and enhance patient care. Currently working on preparing an IEEE research paper in collaboration with my university based on this project.

Comparing Deep Learning Models for Advanced Egg Crack Detection
- Developed and compared CNN, ResNet, and Xception models: Achieved 100% accuracy in egg crack detection through enhanced image datasets and augmentation techniques, ensuring robust quality control in the food industry.
- Utilized deep learning methodologies to create reliable automated egg crack detection systems, enhancing efficiency and accuracy in quality control processes. Prepared an IEEE research paper detailing the methodologies and findings of the project.

Implementation of RAG Pipeline for Retrieving Information from Documents using LangChain Framework - Generative AI
- Designed and implemented a RAG pipeline to retrieve information from documents by loading, splitting, storing, and indexing data for better searchability and model use, using DocumentLoaders, Text Splitters, VectorStore, and Embeddings models.
- Enabled retrieval of relevant document parts based on user queries and used LLM to generate accurate responses, showcasing advanced document handling and natural language processing skills.

Built a Multi-agent system for Knowledge Graphs using Autogen and CrewAI frameworks - Generative AI
- Designed a Multi-Agent system utilizing Autogen and CrewAI Frameworks to automate the conversion of natural language queries into Cypher queries without interruption of human, enhancing interaction with Knowledge Graphs.
- Created five agents and built communication betwen them. Splits the complex objective into small tasks, executes in a series of steps to perform agents efficiently. Trained the agents using LLM's with the prompt engineering. Uses Langchain, Autogen and CrewAI Frameworks.

INTERNSHIP EXPERIENCE

Oasis Infotech - Python & Data Science   04/2024 – 05/2024
Implemented a variety of projects during this internship, demonstrating my skills and expertise in Python and Data Science.

Prodigy InfoTech - Machine Learning   10/2023 – 12/2023
Implemented several machine learning projects during this internship, showcasing my skills in model development and dataset handling.

EDUCATION

Vignan's Foundation for Science, Technology & Research   08/2021 – Present
B. Tech , IT - Artificial Intelligence
CGPA - 9.3/10

CERTIFICATES

Leetcode ⧉	**Codechef** ⧉	**Hacker rank** ⧉	**Microsoft**
DSA	DSA	Python , Java , Problem Solving	Azure AI Fundamentals, Career Essentials in Generative AI
Smart Interviews ⧉	**IBM** ⧉	**NPTEL**	
DSA	ML with Python, SQL and Relational Database	Python, Software Testing, Principles of Management, Ethical Hacking	**PET, BEC** B1 Business Preliminary, formerly known as Cambridge English

ACHIEVEMENTS

Ideathon Winners
Proposed an idea to reduce food waste by delivering excess food to orphanages and underserved communities and won first place.

ProjectExpo Winners
Created an application to reduce food waste by delivering excess food to orphanages and underprivileged areas. Presented a demo of the project at an expo and won first place.