Aravind Itte

 GitHub | in LinkedIn | Portfolio | aravinditte0121@gmail.com | +919030380852

Summary

Passionate software enthusiast with expertise in **AI/ML, Data Science,** and **Web Development.** Constantly exploring innovative technologies and developing solutions to real-world problems.

Skills

Programming Languages	Python, C/C++, Ruby
Web Technologies	HTML, CSS, Bootstrap, JavaScript, Node.js, Django, React, Git, DBMS
Core Skills	OOPS, OS, DSA, Problem Solving, Software Engineering
Data Visualization	Power BI, Google Charts
Soft Skills	Adaptability, Strategic Thinking, Creativity, Communication

Projects

RAG ChatBot | NLP | LangChain   Source Code

- Developed a **Retrieval-Augmented Generation (RAG)** chatbot leveraging **LangChain** to enhance response accuracy by integrating external knowledge sources.
- Designed and implemented a **conversational AI system** with **streamlined query handling**, ensuring **optimized latency and user experience**.
- Demonstrated expertise in **NLP, vector databases, and embedding models**, aligning with industry advancements in AI-driven interactions.

Fake News Detection Project | Machine Learning | NLP   Source Code

- Led the implementation of **TF-IDF vectorization** on datasets containing true and fabricated news articles, achieving a **20% increase** in accuracy for fake news detection, resulting in an **overall accuracy of 85%.**
- Engineered models to **improve detection** reliability, achieving a **95% accuracy by integrating textual analysis of content** (80% accuracy), **title** (90% accuracy), and **publication dates** (95% accuracy), demonstrating advanced proficiency in **machine learning techniques** for misinformation detection.

Facial Recognition System   Source Link

- Engineered a cutting-edge **facial recognition system** inspired by the research paper on **Convolutional One-Shot Siamese Networks**.
- Implemented **deep learning-based feature extraction** and **metric learning** to enable accurate face verification with minimal training data.
- Optimized the model for **real-time recognition**, enhancing efficiency and **reducing computational overhead**.
- Demonstrated expertise in **image processing, deep learning, and Siamese neural networks**, bridging theoretical research with practical application.

Work Experience

AI Training Consultant | Outlier
Dec 2024 - Jan 2025

- Provided expertise in **training and fine-tuning large language models (LLMs)**, optimizing AI systems for enhanced performance and accuracy.
- Tailored AI solutions to client needs, ensuring **seamless integration** into existing workflows and improving efficiency.

Penetration Tester Intern | Cestro
Jun 2023 - Jul 2023

- Conducted **web and mobile application security assessments**, identifying vulnerabilities and enhancing security measures.
- Gained experience with **Burp Suite** and **ZAP** for penetration testing, improving application security protocols.

AWS Internship | APSSDC
Jun 2023 - Aug 2023

- Developed skills in **cloud computing** and **AWS services**, designing scalable and secure cloud solutions.
- Leveraged **AWS Lex, S3, and Lambda** to build efficient architectures, optimizing application performance.

Education

2021 - 2025 — B.Tech in Computer Science and Engineering, **SRM University AP (CGPA: 7.83/10)**
2019 - 2021 — Intermediate BIEAP at **CLR Junior College** **(Marks: 807/1000)**
2018 - 2019 — Class 10th BSEAP at **Sri Vasavi Vidyaniketan** **(CGPA: 9.7/10)**

Certifications

- OpenEDG: C++ Certification
- C# with Microsoft
- SWE Development
- JS Foundation By Mozilla
- Learning Linux Shell Scripting
- Simplilearn: Deep Learning