JAYA SURYA A

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Summary

Engineering graduate with practical experience in Data Science, Machine Learning, and Generative AI. Skilled in Python, SQL, Hadoop, and PySpark with proficiency in data analysis, ETL, visualization, and automation. Currently implementing Generative AI applications using OpenAI GPT, LangChain, and Hugging Face. Built multiple AI-powered apps, ML pipelines, and Python games demonstrating creativity and problem-solving.

Education

Rajalakshmi Engineering College, B.E. Robotics and Automation, CGPA 7.64 (Sep 2020 – May 2024)
St. Joseph's Matric Hr Sec School, Math with Computer Science, 70.5% (Jun 2019 – May 2020)

Technical Skills

Python, SQL, Git, GitHub, Pandas, NumPy, Scikit-learn, NLP, Apache Airflow, Power BI, Matplotlib, Plotly, Hadoop, PySpark, AWS, Azure Databricks, OpenAI API, LangChain, Hugging Face, FastAPI, Streamlit.

Projects

1. GenSight – AI-Powered Analytics & Report Automation System

Developed a SaaS data analytics automation platform integrating FastAPI, PySpark, Hadoop, and GPT API for intelligent insights. Implemented real-time updates and automated report generation with Apache Superset and WeasyPrint.

2. End-to-End Machine Learning Pipeline

Built a modular ML pipeline for ingestion, transformation, training, and deployment with automated logging and evaluation.

3. Python Mini Games & GenAI Projects

Created Python games and Generative AI mini-projects like chatbots, summarizers, and text-image tools using OpenAI and Hugging Face models.

Certifications

- MITx: Machine Learning with Python — Certificate
- Post Graduate Program in Data Science & ML — Certificate
- NLP with Python for ML — Certificate
- Microsoft SQL Server — Certificate
- SQL Skill Test (Advanced) — Certificate
- Power BI Training — Certificate
- AWS Essential Training for Developers — Certificate

Robotics Engineering

Applying robotics and automation expertise to design intelligent systems that integrate hardware and software for real-world applications.

End-to-end design and development of robotic systems combining mechanical, electronic, and software integration. Skilled in control systems, motion planning, automation, and embedded control for autonomous and semi-autonomous robots.

Programming & AI: Proficient in Python, C++, MATLAB, AI integration, and computer vision.

Embedded & Hardware Systems: Hands-on with Arduino, Raspberry Pi, and microcontrollers.

Design & Simulation: Skilled in SolidWorks, AutoCAD, ROS/Gazebo, and 3D printing with patent design experience.