A VAISHNAVI RAO

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LinkedIn | GitHub | Portfolio

Professional Summary

Computer Science & Engineering (Data Science) graduate with a strong interest in machine learning, data science, and web development. Proficient in Python, SQL and front-end technologies, with hands-on experience. Looking for a software related role to use my technical and analytical skills in real-world projects.

Education

Bachelor of Engineering in Computer Science (Data Science) 2021 – 2025
Vivekananda College of Engineering and Technology, Puttur CGPA: 8.75/10.0
Visvesvaraya Technological University (VTU)

Technical Skills

- **Programming:** Python
- **Frontend:** HTML, CSS, JavaScript
- **Database:** SQL (MySQL)
- **Frameworks/Tools:** Flask, Streamlit
- **Cloud & Deployment:** Microsoft Azure (basic), Git, GitHub
- **Other:** Machine Learning, Data Analysis

Experiences

Junior Machine Learning Intern | Tiny Prism Labs Private Limited | Manipal June 2025 – Present

- Developed a real-time face recognition and attendance system using Python, OpenCV, and Streamlit, enabling automated face detection and attendance logging with high accuracy.

AI Data Quality Analyst Intern | Rooman Technologies Pvt Ltd | Remote September 2024 - March 2025

- Conducted data analysis, visualization, and AI-driven decision-making, leading to a 40% improvement in analytical efficiency using SQL, Python and Power BI.

Projects

Melody-Perfect: AI-Powered Real-Time Pitch Feedback System for Singing Voice | Python, Flask

- Built a real-time pitch feedback system leveraging machine learning, enhancing vocal pitch accuracy.
- Implemented MFCC feature extraction and Random Forest classifier, improving detection precision by 30%.
- Designed a user-friendly web interface, allowing singers to receive feedback, real-time visualization of pitch accuracy.

Sensor Data Quality Monitoring | Python, SQL, Scikit-learn, Pandas, Power BI, NumPy

- Built a real-time data quality monitoring system for IoT sensor data using Python, machine learning, and SQL, reducing errors by 25% and improving data integrity.
- Integrated Power BI dashboards for real-time anomaly detection and data-driven decision-making through automated data validation pipelines.

Certifications

- Full-Stack Web Development Bootcamp *Udemy (2025)*
- Programming for Everybody (Python) *Coursera (2024)*