Avani D Poojary

ML & Frontend Developer

+91 8310665113 avanidpoojary02@gmail.com github.com/Avani02d linkedin.com/in/avani-d-poojary

PROFESSIONAL SUMMARY

Results-driven Computer Science undergraduate specializing in Machine Learning, Artificial Intelligence, and Full-Stack Development. Proven expertise in building adaptive solutions, ranging from **RAG-based AI workflows** using LangGraph to dynamic web applications with **Next.js** and **TypeScript**. Adept at data preprocessing, predictive modeling, and deploying NLP and Computer Vision capabilities using **TensorFlow** and **Google Cloud**.
Driven by curiosity to automate processes, with hands-on experience in financial data parsing, RESTful API integration, and robust software design. Demonstrated leadership by spearheading technical initiatives and increasing community participation by **108%**.
Currently focused on creating intelligent platforms that learn, adapt, and scale effectively to solve complex real-world challenges.

EDUCATION

Sambhram Institute of Technology — **Bangalore, Karnataka, India**
B.E. in Computer Science — ***CGPA: 8.38/10*** — *2023 – 2027*

Janatha Independent PU College — **Karnataka, India**
Class XII (State Board) — ***Percentage: 69.1%*** — *2023*

Sri Venkatramana English Medium School — **Karnataka, India**
Class X (State Board) — ***Percentage: 80.8%*** — *2021*

TECHNICAL SKILLS

Languages: Python, Java, C/C++, JavaScript, TypeScript, SQL, HTML5, CSS3
Frameworks & Libraries: React.js, Next.js, Node.js, TensorFlow, Keras, LangGraph, Pandas, NumPy, Matplotlib, Scikit-learn
Cloud & Databases: Google Cloud Platform (Vertex AI), MongoDB, Supabase, PostgreSQL
Machine Learning & AI: Natural Language Processing (NLP), Large Language Models (LLMs), RAG Pipelines, Computer Vision (ViT), Predictive Modeling, Deep Learning, Statistics
Developer Tools: Git, GitHub, VS Code, REST APIs, Vercel, Postman

WORK EXPERIENCE

Technical Team Member — Sep 2025 – Present
OSCode, SAIT Chapter — *Bengaluru, IN*

- Engineered a QR-based check-in solution, reducing wait times by **80%** and streamlining event tracking for **250+** participants.
- Provided real-time support and rapid debugging assistance to **100+** attendees during hands-on technical workshops.
- Diagnosed and resolved complex software bottlenecks, ensuring **100%** operational uptime during high-pressure situations.
- Deployed and managed infrastructure for hackathons, handling extensive hardware setup and system configuration to achieve **zero downtime**.

Machine Learning Intern — Jul 2025 – Aug 2025
Coincent.ai — *Remote*

- Developed a **bike sharing demand prediction model** using **Scikit-learn**, analyzing weather, seasonal, and temporal features to forecast rental trends and improve resource allocation.
- Implemented a **Human Action Detection System** using **Logistic Regression** and **K-Nearest Neighbors (KNN)**, achieving accurate classification based on motion-related data.
- Performed extensive **data preprocessing, feature engineering, and normalization** using **Pandas** and **NumPy** to enhance model performance and generalization.
- Evaluated model performance using key metrics such as **accuracy, precision, recall, and F1-score**, ensuring robustness and reliability across datasets.
- Optimized machine learning models through **hyperparameter tuning** and iterative experimentation, improving prediction efficiency and reducing error rates.

PROJECTS

- **WealthWise - AI Finance Manager** | *Next.js, TypeScript, Supabase, Google Gemini API, Clerk*
  • Architected a responsive full-stack financial platform utilizing **Next.js** and **Google Gemini AI** for automated receipt parsing and intelligent expense tracking.
  • Integrated robust user authentication via **Clerk** and engineered dynamic, real-time analytics dashboards using **Supabase** and **React**.
  Live Demo
- **Bike Sharing Demand Prediction** | *Python, Pandas, Scikit-learn, Machine Learning*
  • Built a scalable machine learning algorithm to forecast bike rental demand by analyzing complex weather, seasonal, and time-based features.
  • Optimized hyperparameters and utilized data-driven insights to drastically improve simulated resource allocation efficiency.
- **Human Action Detection System** | *Python, Scikit-learn, Machine Learning*
  • Implemented **Logistic Regression** and **K-Nearest Neighbors (KNN)** classifiers to accurately recognize and categorize human actions.
  • Evaluated predictive performance utilizing rigorous statistical metrics, including precision, recall, and F1-score, to validate algorithm reliability.

CERTIFICATIONS & TRAINING

- **Applied Generative AI** | *Google Cloud*
  • Built real-world enterprise AI applications using Google Gemini and Vertex AI platforms.
- **Technical Skill Development & Data Analytics** | *Vtricks Technologies*
  • Acquired comprehensive training in Data Analytics (Python, Power BI), NoSQL, Java, and relational SQL databases.
- **Innovation & Design Thinking Program** | *COMED KARES*
  • Applied design thinking principles to solve complex engineering and software challenges.
- **Software Engineering Virtual Experience Programs** | *Forage*
  • **Wells Fargo**: Engineered and tested scalable REST APIs using Java and Spring Boot.
  • **Goldman Sachs**: Implemented advanced cryptography and cybersecurity protocols.

ACHIEVEMENTS

- **National Finalist - VOIS Tech Innovation Marathon 2.0**
  • Selected among the top 75 teams nationwide for an exclusive technical mentorship program.
- **Top 5000 - EY Techathon 6.0**
  • Ranked in the top tier among 200,000+ national participants in a competitive software engineering hackathon.