

Avani D Poojary

ML & Frontend Developer

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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 <i>B.E. in Computer Science</i> — CGPA: 8.28/10	Bangalore, Karnataka, India 2023 – 2027
Janatha Independent PU College <i>Class XII (State Board)</i> — Percentage: 69.1%	Karnataka, India 2023
Sri Venkatramana English Medium School <i>Class X (State Board)</i> — Percentage: 80.8%	Karnataka, India 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.