Pooja Sahu

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PROFESSIONAL SUMMARY

AI/ML student with 1+ years of Python development experience, specializing in deep learning, computer vision, and full-stack mobile development. Solved **100+ LeetCode problems** demonstrating strong data structures and algorithmic skills. Published researcher with hands-on experience in building end-to-end ML solutions, RESTful APIs, and analytics dashboards. Strong problem-solving ability with collaborative Agile experience.

EDUCATION

Vellore Institute of Technology   September 2023 – August 2027
Bachelor of Technology in Computer Science (AI-ML) – CGPA: 8.87/10   Bhopal, MP

EXPERIENCE

Amasqis.ai   March 2025 – September 2025
AI/ML Intern   Remote

- Designed **user-friendly interfaces for financial AI platform** serving 500+ customers; created 15+ dashboard components presenting customer insights and performance metrics, improving decision-making efficiency by 30%
- Collaborated in **Agile sprints** with cross-functional teams to implement AI-driven features and integrate user feedback for enhanced UI/UX

PROJECTS

Gyaan Saarthi – AI-Powered Educational Platformt

- Developing **RAG-based AI tutor** using Django REST Framework and Flutter supporting multiple Indian languages with 637 NCERT textbook entries; implementing semantic search via ChromaDB and Sentence Transformers (768-dim embeddings) achieving curriculum-aligned responses without model training
- Building **hybrid AI system** with Ollama (offline) and Groq API (online) for low-resource devices, implementing JWT authentication, real-time chat with Provider state management, and designing 11 database models with 15+ REST endpoints; currently optimizing performance for production deployment

Facial Expression Recognition using CNN and SVM

- Developed **hybrid emotion recognition model** using VGG16 and SVM achieving 84.40% accuracy and 0.85 F1 score on 35K+ images (CK+, FER-2013 datasets); implemented data augmentation and hyperparameter tuning for model optimization
- Built Streamlit demo with real-time webcam integration; **research paper accepted at WCSC 2025** conference

OLA Business Analytics Dashboard

- Developed **ride-sharing analytics dashboard** using Power BI, SQL, and Excel analyzing 50K+ records; delivered insights on bookings, revenue, cancellations, and satisfaction metrics, improving fleet management by 25%

TECHNICAL SKILLS

Languages : Python, Java, C++, SQL, JavaScript, HTML, CSS
Frameworks & Tools : Django, Flutter, TensorFlow, Keras, Streamlit, Power BI
Libraries & APIs : Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Google Gemini API
ML/AI Skills : Deep Learning, NLP, CNN, SVM, Feature Engineering, Model Deployment, Hyperparameter Tuning
Soft Skills : Problem Solving, Team Collaboration, Communication, Leadership, Critical Thinking

CERTIFICATIONS & PUBLICATIONS

Publication: Facial Expression Recognition using CNN and SVM   WCSC 2025
Research paper accepted at World Conference on Smart Computing

Google Generative AI (Basic, Intermediate, Advanced) | Smartbridge GenAI | GeeksforGeeks ML/DL 2025
Completed certifications in Generative AI, Machine Learning, and Deep Learning