

# 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. Published researcher with proven expertise in building end-to-end ML solutions, RESTful APIs, and data analytics dashboards. Strong problem-solving and collaboration skills with hands-on experience in model deployment and Agile methodologies.

## EDUCATION

### Vellore Institute of Technology

Bachelor of Technology in Computer Science (AI-ML) – CGPA: 8.85/10

September 2023 – August 2027

Bhopal, MP

## EXPERIENCE

### Amasqis.ai

AI/ML Intern

March 2025 – September 2025

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

### FarmersBot – Smart Agricultural Assistant

- Developed **AI-powered mobile app** using Flutter and Flask with 3 ML models: Disease Detection (CNN, 87% accuracy on 10K+ images), Crop Recommendation (NPK/pH/climate parameters), and Soil Classification
- Built **RESTful API backend** with Flask for real-time ML inference and Flutter frontend with camera integration; currently optimizing model performance and preparing 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 :** Flask, Flutter, TensorFlow, Keras, Streamlit, Power BI

**Libraries & APIs :** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, OpenCV, Google Gemini API

**ML/AI Skills :** Deep Learning, Computer Vision, 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

*Research paper accepted at World Conference on Smart Computing*

WCSC 2025

### Google Generative AI (Basic, Intermediate, Advanced) | Smartbridge GenAI | GeeksforGeeks ML/DL 2025

*Completed certifications in Generative AI, Machine Learning, and Deep Learning*