JASSMITHA JAMMU

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SUMMARY

AIML undergraduate specializing in **real-time computer vision systems and applied machine learning pipelines**. Experienced in building end-to-end perception systems using YOLO and CNNs with live inference. Worked on **ML-based prediction systems and LLM-integrated workflows**, focusing on practical deployment and system design.

TECHNICAL SKILLS

Core Focus — Computer Vision & ML Systems
YOLOv5/YOLOv8, OpenCV, CNN Architectures, Object Detection Pipelines, Real-Time Video Processing

Machine Learning & Modeling
PyTorch, TensorFlow, Scikit-learn, Random Forests, Model Training & Evaluation, Feature Engineering, Hyperparameter Tuning

Systems & Implementation
End-to-End Pipeline Design, Data Preprocessing, Model Deployment (Local/Inference Pipelines)

LLM Integration (Working Knowledge)
Prompt Engineering, LLM APIs, Context Handling

Programming & Tools
Python, NumPy, Git, GitHub

EXPERIENCE

AIML Intern - InterviewBuddy (IB)

Nov 2025 – Apr 2026

- Designed and deployed a multi-agent HR automation system integrating SMTP-based workflows for structured candidate communication
- Built agentic pipelines including task orchestration, role-based agents, and inter-agent communication
- Improved system reliability and traceability through version-controlled workflows and modular interaction design

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PROJECTS

Overspeed Vehicle Detection System

- Developed a real-time vehicle violation detection system using YOLOv8 and OpenCV
- Implemented full pipeline: frame extraction → object detection → tracking → speed estimation → violation detection
- Optimized for low-latency processing in video streams

Menstrual Cycle Prediction System

- Designed a hybrid predictive system combining Machine Learning (Random Forest regression) with a biological rule engine to estimate ovulation, next cycle, and fertile window, translating raw predictions into clinically interpretable outputs
- Engineered and optimized feature space from 80+ variables to 7 biologically relevant predictors, improving model stability and reducing noise through structured preprocessing (cleaning, selection, scaling)
- Achieved ~1–2-day MAE in ovulation prediction on a 1.6K+ real-world dataset, while identifying modeling gaps (non-sequential assumptions)

CERTIFICATIONS

- Prompt Engineering Specialization Vanderbilt University (2025)
- AI Agents in Python — Vanderbilt University (2025)
- Introduction to Deep Learning — Infosys Springboard (2026)
- Prompt Engineering — Infosys Springboard (2026)

EDUCATION

B.Tech — Computer Science Engineering (AI & ML)
GITAM University | 2023 – 2027