

PRANETH S

AI ENGINEER

Coimbatore, India-641111 | +91 7904786938 | praneths07@gmail.com



Objective

Final-year B.Tech student in Artificial Intelligence & Data Science with hands-on experience in Computer Vision, Generative AI, Large Language Models (LLMs), Machine Learning, and Backend Development. Built AI-powered applications using Python, FastAPI, OpenCV, YOLO, SQL, and PyTorch through industry internships and real-world projects. Seeking AI Engineer or Machine Learning Engineer opportunities.

Skills

- **AI & Machine Learning:** Machine Learning, Deep Learning, Prompt Engineering, NLP, LLMs, Computer Vision, YOLO, OpenCV, SAM, Face Recognition, Automation, TensorFlow, PyTorch
- **Programming & Querying:** Python, Java, JavaScript, SQL, MySQL
- **Backend & Web Technologies:** FastAPI, Node.js, Express.js, HTML & CSS, JavaScript, REST APIs
- **Analytics & Visualization:** Power BI, Tableau, Excel, Pandas, NumPy
- **Tools:** Git, GitHub, VS Code

Experience & Internships

1. **AI ENGINEER INTERN | TEXA Innovates - Coimbatore, India** | April 2026 - present
 - Built a multi-camera employee tracking and attendance monitoring system using YOLO, OpenCV, and RTSP streams, scaling to 50+ cameras and monitoring 200+ employees across the facility.
 - Developed an LLM-powered database assistant enabling natural language SQL generation and schema-aware database querying using FastAPI and MySQL.
2. **DATA ANALYST INTERN | I-Bacus Tech Solutions - Coimbatore, India** | June – July 2025
 - Developed and maintained Power BI and Tableau dashboards to track key business KPIs.
 - Prepared structured data summaries and visual reports for stakeholder presentations.
3. **GRAPHICAL DESIGNING INTERN | Visaiathalam Academy & Solutions** | May – December 2024
 - Designed marketing creatives and social content while maintaining brand consistency across digital and print channels.

Projects

- **AI-Powered Employee Tracking and Attendance Monitoring System:** Developed a real-time employee tracking and automated attendance system for multiple RTSP camera streams. Enabled workforce analytics with accurate person detection, tracking, and attendance logging. **Tech Stack:** Python, YOLO, SAM, ByteTrack, OpenCV, Face Recognition, RTSP, NumPy, Git
- **SmartDB Assistant – AI Database Chatbot:** Built an LLM-powered chatbot that converts natural language into SQL queries for MySQL databases with schema-aware responses. Developed a web interface with FastAPI for secure and real-time database interaction. **Tech Stack:** Python, FastAPI, MySQL, LLMs, Prompt Engineering, SQL, REST APIs, HTML, CSS, JavaScript.
- **Object Detection with Voice for Blind Navigation:** Developed an Android application that detects objects in real time and provides voice-guided navigation with distance estimation. Optimized computer vision inference for accessible and responsive user interaction. **Tech Stack:** Python, YOLOv5, OpenCV, Android Studio, Text-to-Speech (TTS), Computer Vision.
- **AI Image Accuracy Finder — Pixel & Semantic Similarity Evaluation:** Developed an AI-based image evaluation system using OpenAI CLIP and PixelMatch for semantic and pixel-level similarity scoring. Built a Node.js + Python architecture for automated image ranking and accuracy evaluation. **Tech Stack:** Python, PyTorch, OpenAI CLIP, Node.js, Express.js, PixelMatch, JavaScript, Git

Education

- **Dr. N.G.P Institute of Technology - Coimbatore, TN | UG - 2027**
Bachelor of Technology in Artificial Intelligence and Data Science Graduate – 7.7 CGPA
- **ELGI Matric Higher Secondary School - Coimbatore, TN | HSC – 2023 – 83%**
- **ELGI Matric Higher Secondary School - Coimbatore, TN | SSLC – 2021 - Pass – 88%**

Certifications

- GenAI – Powered Data Analytics Job Simulation- Tata (Forage)
- Introduction to HCL – NPTEL (Elite + Gold)
- Design and Implementation of Human Computer Interfaces – NPTEL (Elite)
- 3 months Graphical Designing Crash Course

Leadership & Responsibilities

- Event Coordinator – Prompt Battle & Paper Presentation
- College Basketball Team Vice Captain