Perla Jaswanth Krishna

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Education

NRI Institute of Technology   *Sept 2022 – May 2026*
B.Tech in Artificial Intelligence and Machine Learning - CGPA - 8.9

Technical Skills

- **GenAI & LLMs:** OpenAI GPT-3.5/4, Gemini, Gemma 2, Prompt Engineering
- **ML/AI Frameworks:** TensorFlow, Scikit-learn, OpenAI Whisper, Sentence Transformers
- **Programming Languages:** Python, Java, C, FastAPI, REST APIs
- **Databases:** PostgreSQL, MongoDB, Firebase, Vector Databases
- **Web Development:** React.js, Node.js, Express.js, Flask
- **DevOps & Cloud:** Git, GitHub, Vercel, Netlify, Render
- **Data Processing:** Selenium, FFmpeg, TF-IDF, Embeddings, Semantic Search

Projects

Bilingual Translator using Gemma 2 LLM
- Achieved **94% translation accuracy** in the **Google Hackathon** ranking **5th** among **1,237 participants** using **7B-parameter Gemma 2** model.
- Fine-tuned on **215,000 sentence pairs** across **2 languages** including low-resource Telugu (**23,500 examples**).
- Demonstrated expertise in **LLM fine-tuning, embedding generation, and semantic understanding**.

Instagram Spam Detection via Live Web Scraping
- Built a **real-time pipeline** to scrape and process **15,000+ Instagram comments** using Python.
- Trained a **Linear Regression model** on a **7,500-entry** labeled dataset for spam classification.
- Achieved efficient processing and classification for detecting spam in live comment streams.

InjuryShield – AI-powered Injury Risk Prediction
- Built **real-time pose analysis system** using **MediaPipe** with **42 skeletal landmarks** extraction.
- Achieved **93% sensitivity and 87% precision** in injury risk prediction through continuous tracking.
- Implemented **ML-based risk assessment** with **72%** reduction in reaction time using alert mechanisms.
- Demonstrated expertise in **computer vision, pattern recognition, and real-time data processing**.

Professional Experience

GenAI Developer Intern   Remote, India
Infosys Spring Board   *Sept 2024-Nov 2024*
- Developed an **AI-powered video-to-reels summarization system** using **OpenAI GPT-3.5** for concise and engaging content generation.
- Designed intelligent **video segmentation and summarization workflows** to automatically produce short-form content.
- Built **automated preprocessing pipelines** with **FFmpeg and Python** for efficient multimedia content handling.
- Improved overall output quality through fine-tuned **prompt engineering and summarization strategies**.

Data Analyst Intern   Vijayawada, Andhra Pradesh
Civil Supplies Commissioner Office, Andhra Pradesh   *Present*
- Analyzing **large-scale government datasets** to optimize public distribution system efficiency and resource allocation.
- Creating **automated reports** and insights for policy decision-making using **SQL and PostgreSQL**.

Achievements & Leadership

- Won **4 National-Level Hackathons** with focus on **AI/ML and GenAI applications**
- Created and published **PIP module for Form Validation** in Python (open-source contribution)
- **Cleared GATE 2025 DA paper** demonstrating strong analytical and technical skills

Relevant Certifications

- **Oracle Cloud Infrastructure 2024 Generative AI Certified Professional** – Oracle
- **Career Essentials in Generative AI** – Microsoft and LinkedIn
- **Google IT Automation with Python** – Google
- **Github Foundations** – Github