

# Perla Jaswanth Krishna

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Portfolio

[linkedin.com/in/jaswanthperla](https://linkedin.com/in/jaswanthperla)

[github.com/JPKrishna28](https://github.com/JPKrishna28)

## Education

**NRI Institute of Technology**

B.Tech in Artificial Intelligence and Machine Learning - CGPA - 8.9

Sept 2022 – May 2026

## Skills

- **Programming Languages:** Python, Java, C
- **Web Development:** React.js, Node.js, Express.js, MongoDB, REST APIs
- **Machine Learning AI:** Scikit-learn, TensorFlow, OpenAI Whisper, Gemini
- **Databases:** PostgreSQL, MongoDB, Firebase
- **DevOps Cloud:** Git, Github, Vercel, Netlify, Render
- **Soft Skills:** Leadership, Communication, Team Management, Public Speaking

## Projects

### InjuryShield – AI-powered Injury Risk Prediction



- Built a real-time injury prediction system using **MediaPipe** to detect and analyze human body posture across **27 key joints**.
- Extracted **42 skeletal landmarks** to assess risk patterns and predict potential injuries with **93% sensitivity**.
- Achieved **87% precision** in identifying risky motions through continuous tracking of **18 fps** and alert mechanisms reducing reaction time by **72%**.

### Instagram Spam Detection via Live Web Scrapping



- Built a live spam detection pipeline by scraping **15,000+ Instagram comments** using **Selenium**, creating a **7,500-entry** labeled dataset.
- Achieved **92% accuracy** using **TF-IDF** with **6,500 features**, **Naive Bayes**, and **SVM** with **0.001 C-parameter**, processing **8 comments/second**.
- Works using Selenium with **99.7% uptime**, handling with **250ms** average response time.

### Bilingual Translator using Gemma 2



- 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**).

### Real-Time Water Level Monitoring and Alert System



- Engineered a dashboard with **93% accuracy** in predicting water level anomalies using **12 sensor metrics** collected at **5-minute intervals**.
- Developed back end with **Python & Flask** handling **1,440 daily datapoints per sensor** across **32 locations**, visualized via **Plotly**.
- Integrated an emergency alert system notifying **537 flood-prone households** in under **4.2 seconds** with **99.9%** delivery rate.

## Experience

### Reel Ginx!

Remote, India

### Infosys Spring Board

Sept 2024-Nov2024

- Developed an **AI-powered Reel Generator** extracting important video segments with **90% accuracy**, leveraging advanced video analysis algorithms to create concise, engaging content.
- Integrated **OpenAI GPT-3.5** for intelligent segment identification and content summarization, enhancing automated video content creation.
- Used **FFmpeg** for clean audio extraction and video resizing based on user input, improving preprocessing efficiency by 35%.

## Achievements

- Won **4 National-Level Hackathons**
- Created and published a **PIP module for Form Validation** in Python
- **Cleared GATE 2025 DA paper**
- Served as **Class Representative for 3 consecutive years**, demonstrating leadership and student coordination

## Certifications

Oracle Cloud Infrastructure 2024 Generative AI Certified Professional – **Oracle**

Navigating Large Language Models: Fundamentals and Techniques – **SAP**

Artificial Intelligence Primer Certification – **IBM**

Introduction to Machine Learning – **Kaggle**

Introduction to Prompt Engineering – **Cognitive Class.ai**

Generative AI Fundamentals – **Databricks**

Career Essentials in Data Analysis – **Microsoft** and **LinkedIn**

Google IT Automation with Python – **Google**

Career Essentials in Generative AI – **Microsoft** and **LinkedIn**