

# SRITEJ REDDY PONGA

AI/ML ENGINEER | PYTHON DEVELOPER | AUTOMATION & EMBEDDED SYSTEMS



+91 7013921445



sritej41@gmail.com



<https://www.linkedin.com/in/sritej-reddy-ponga>

AI Research & ML Engineer specializing in Hyperspectral Spatial ML and Offshore Engineering automation. Experienced in building domain-specific multi-models and scalable systems using Python, TensorFlow, and Scikit-learn. Founder of the Vizag AI Community

## WORK EXPERIENCE:

### AI Research & ML Engineer • VAISHVIK VERTEX SOLUTIONS • Oct 2025

- R&D in Hyperspectral Imaging: Spearheading novel research in Hyperspectral Spatial Machine Learning, developing advanced algorithms for spatial-spectral feature extraction.
- Engineering Automation: Architecting AI-driven automation pipelines for the Naval Architecture & Offshore Engineering domain, optimizing workflows for structural analysis and hydrodynamic simulations to reduce manual processing time.
- Multi-Model Development: Developing domain-specific ML multi-models to enhance predictive accuracy and streamline complex industrial engineering tasks.

### AI Automation & ML Engineer • FarmVidhya.AI • Jun 2025 – Oct 2025

- Developed and load-tested POC-1 backend, building a robust MLOps workflow with FastAPI + CI/CD pipelines, improving deployment reliability to 96% uptime.
- Built automation pipeline for data analysis & admin tasks, cutting processing costs by ~25% and reducing manual workload by 40+ hours/month.
- Designed framework for Speech-to-Text (STT), improving transcription accuracy by 15% through testing with Pyannote & Resemblyzer.

### AI & Marketing Intern • Alphanome.AI • Dec 2024 – May 2025

- Founded and led Vizag AI from Alphanome's research lab, driving community growth and ecosystem outreach.
- Built AI-driven automation systems for lead generation & campaign management, improving conversion rates by 18% using Python + HubSpot APIs.

### Web Development Intern • ETHNO • Mar 2023 – May 2023

- Designed and launched a responsive e-commerce site, increasing product inquiries by 40%.
- Design Custom Dynamic Pages for Frontend.

## CERTIFICATIONS:

- Python for Data Science, AI & Development(IBM)-Coursera
- Supervised Machine Learning: Regression(IBM)-Coursera
- Unsupervised Machine Learning(IBM)-Coursera
- Robotic Process Automation(SS&C Blue Prism)
- Embedded Systems(Pantech ProLabs)

## **EDUCATION:**

**B.Tech, Computer Science & Engineering.**

GITAM Institute Of Technology And Management [2020-2024],Visakhapatnam.

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## **TECHNICAL SKILLS:**

### **Programming Languages:**

Python • Java • C++ • JavaScript • HTML • CSS.

### **Frameworks & Libraries:**

React.js • TensorFlow • OpenCV • Scikit-learn • Matplotlib • NumPy • Pandas  
BeautifulSoup • Torch • SciPy • pyannote • Transformers • Google.generativeai.

### **Tools & Platforms:**

HubSpot • Firebase • Git • Roboflow • Linux • Azure • PostgreSQL • AutoCAD •  
Pipecat • Blender • Unreal Engine 4 • Unity Engine • Power BI.

### **Core Domains:**

Machine Learning • CI/CD • FastAPI • LLMs • RPA • Computer Vision • Speech  
Recognition • Data Pipelines • Hyperspectral Imaging • REST APIs • DSA.

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## **PROJECTS: <https://github.com/epitofcode>**

### **Hyperspectral Analysis:**

- Built a scalable Spatial-Spectral classification pipeline for satellite imagery, achieving 98.73% accuracy (Pavia) and 93.36% (KSC).
- Engineered an automated dimensionality reduction workflow using PCA, reducing 200+ spectral bands to 50 while retaining 99.7% variance.

### **AI Warehouse Surveillance Platform: [www.cctvai.org](http://www.cctvai.org)**

- Built TensorFlow + OpenCV system achieving 90%+ detection accuracy, automating warehouse monitoring and reducing manual labor dependency by 60%.

### **ML-Ops Workflow Platform:**

- Engineered FastAPI + Azure ML pipeline (data ingestion → training → validation → deployment), integrated with Docker & CI/CD, enabling 40% faster release cycles and rollback safety.

### **Brain-Controlled Prosthetic Arm:**

- Created a functional EEG-controlled prosthetic limb prototype using Arduino and ThinkGear, enabling basic gesture control for mobility-impaired users.
- Reduced response latency to under 2 sec by fine-tuning signal decoding and actuator timing.

### **Vizag AI Community (Co-Founder) : [www.vizag-ai.com](http://www.vizag-ai.com)**

- Established Vizag's first dedicated AI community hub.
- Grew membership from 0 → 150+ in <90 days, organizing 3+ large-scale AI events (Leader's Dinner, LLMs, Computer Vision).
- Generated ₹50K+ sponsorships & secured partnerships with Alphanome.AI, PRAXOL Engineering, and MeitY-NASSCOM, generating ₹50K+ in sponsorships.