

SRITEJ REDDY PONGA

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



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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.
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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.

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.

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]

- 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]

- 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.