

Sriharsha Meduri

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EDUCATION

Andhra University College of Engineering

Bachelor of Technology in Information Technology; CGPA: 8.0/10

Visakhapatnam, India

Aug 2023 – Apr 2027

PROFESSIONAL EXPERIENCE

Machine Learning Intern

iMerit Technology

Dec 2025 – Present

Visakhapatnam

- Supporting data annotation and model fine-tuning workflows for Fortune 500 AI projects across computer vision, NLP, and audio domains, utilizing DataStudio and Ango Hub platforms for quality control and automation
- Collaborating with ML engineers on training data enrichment, sentiment analysis labeling, and annotation pipeline optimization for production AI systems in autonomous vehicles, medical AI, and enterprise applications

Machine Learning Research Intern

Under mentorship of Prof. Pratap Chandra Mandal, IIM Shillong

Sep 2025 – Present

Remote

- Drafting research paper on **deep learning for text classification** using LSTM and BiGRU architectures with GloVe embeddings, implementing advanced NLP preprocessing pipelines
- Achieved **83% accuracy, precision, recall, and F1-score** on large-scale customer complaint datasets through systematic experimentation and hyperparameter tuning

Web Development Intern

Sep 2025 – Present

InsightKnox

Remote

- Built 5+ responsive web components using React and Tailwind CSS, reducing page load time by 35% through lazy loading and code splitting, improving mobile user retention by 22% across 10K+ monthly visitors

PROJECTS

PhishingLens - Multi-Modal Phishing Detection System | Python, FastAPI, React, Docker, K8s, ML/AI

- Built production-grade AI system achieving **96% detection accuracy** with **sub-50ms response times**, leveraging DistilBERT transformers for NLP, YOLOv5/v8 for visual brand detection, and Graph Neural Networks
- Engineered **4-source threat intelligence fusion** (Scanner + DistilBERT + GNN + OTX feeds) with **2-of-4 consensus voting**, reducing false positives by 40% through calibrated probability scoring; deployed microservices on Docker/Kubernetes with Prometheus/Grafana monitoring achieving **99.9% uptime**
- Delivered cross-platform protection suite: React dashboard, Chrome MV3 extension with real-time blocking, and REST API securing **5,000+ users**, integrated PhishTank/MISP threat feeds for continuous learning with automated model retraining and **10K+ concurrent user** capacity

KEY ACHIEVEMENTS

2nd Position – National Cybersecurity Bootcamp

Apr 2025

- Secured 2nd place and **Rs. 5,000 prize** at Andhra University & ISEA bootcamp (sponsored by MeitY, Govt. of India) among **150+ participants** by building a browser extension to detect phishing websites and Implemented real-time alerts and user whitelist management to protect users from malicious content

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, TypeScript, Java, C

Web Development: React, FastAPI, Django, Vite, HTML, CSS, Bootstrap, TailwindCSS, Storybook

Machine Learning/AI: PyTorch, Scikit-learn, Transformers, TensorFlow, Graph Neural Networks, ONNX

DevOps & Infrastructure: Docker, Microservices, REST APIs, CI/CD

Databases: MySQL

Tools: Git, GitHub, VS Code, Figma, Notion, Canva, Wix

LEADERSHIP & ACTIVITIES

Google Developer Student Clubs | Co-Lead – Cybersecurity Chapter

2025 – Present

- Organized **technical workshops**, Capture The Flag competitions, guest speaker sessions on cybersecurity, engaging **200+ students** and mentored **peers** in phishing detection techniques, secure coding practices, and penetration testing methodologies