

Sai Hemanth Guntur

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SUMMARY

- **3+ years of experience** in building and deploying machine learning, NLP, and computer vision models in cloud environments (Azure, AWS, GCP).
- Expertise in developing end-to-end ML pipelines using Python, Docker, Flask, and CI/CD tools for real-time and batch inference.
- Strong background in data engineering, MLOps, and creating business intelligence dashboards with Tableau and Power BI.
- Published and presented AI research in international conferences (IEEE, ICCPSMLA) with applications in energy prediction, phishing detection, and object detection.
- Experienced in designing and deploying AI-powered solutions such as chatbots and intelligent assistants, with hands-on knowledge of prompt engineering and integrating LLM-based tools into business workflows.

EDUCATION

University of the Pacific – Stockton, CA Master of Science in Computer Science	May 2025
Vignan Institute of Technology and Sciences, Hyderabad, India Bachelor of Technology in Computer Science	Sep 2021

WORK EXPERIENCE

Teaching Assistant – Storytelling & Visualization University of the Pacific Stockton, CA	Jan 2025 – May 2025
<ul style="list-style-type: none">• Led 6+ lab sessions on visual storytelling, data interpretation, and design thinking to support 40+ students.• Mentored projects using Tableau, Power BI, and Python, improving scores by ~15%.• Provided 1:1 mentorship and graded 100+ assignments and exams.• Revamped course materials, raising course ratings from 4.1 to 4.7/5.	
AI/ML Engineer Capgemini, Hyderabad, India	Apr 2022 – July 2023
<ul style="list-style-type: none">• Developed and deployed ML/NLP models for enterprise-scale systems across Azure, GCP, and AWS.• Built automated data pipelines using Python and Dataflow to support real-time and batch inference.• Led deployment of ML models via Docker & Kubeflow; implemented CI/CD and monitoring.• Created KPI dashboards for business stakeholders using Tableau and Google Data Studio.• Improved infrastructure automation and access controls using Terraform.	
Junior Data Scientist Yogi Careers, India	Jan 2021 – March 2022
<ul style="list-style-type: none">• Built predictive models for candidate-job matching using Python and Azure ML.• Designed features and trained classification models (Logistic Regression, Random Forest).• Exposed models via REST APIs for integration with recruiting platforms.• Conducted model validation and performance tuning (R^2, RMSE).	

KEY PROJECTS

Solar Energy Prediction using ML & DL (Submitted to IEEE GESS 2025)
<ul style="list-style-type: none">• Built an ensemble predictor using Voting Regressor (DNN + Random Forest + Decision Tree) achieved $R^2 = 0.92$ on solar energy output data.
Phishing Website Detection (Published at ICCPSMLA 2025)
<ul style="list-style-type: none">• Developed a phishing detection system using TF-IDF and URL-based features applied Logistic Regression, Random Forest, achieving 96% accuracy. Deployed via Flask for live predictions.
Bullet Impact Detection using Mask R-CNN (Published at IEEE ICCMC 2022)
<ul style="list-style-type: none">• Built a bullet impact detection framework using Mask R-CNN and annotated datasets. Emphasized anchor optimization and data augmentation techniques.
Detecting Flying Airplanes in Satellite Images using ML & YOLO (Research Paper Under Preparation for Submission to IEEE/Elsevier Conference)
<ul style="list-style-type: none">• Trained a YOLOv5 model on custom satellite datasets achieved mAP@0.5 = 87.3% through multi-scale augmentation and hyperparameter tuning.

TECHNICAL SKILLS

Languages: Python, SQL, Java, C++

ML & AI: scikit-learn, TensorFlow, XGBoost, NLP (spaCy, NLTK), Prompt Engineering

MLOps: Docker, Flask, GitHub Actions, REST APIs, CI/CD

Cloud: Azure (strong), AWS/GCP (familiar), Terraform, Dataflow

Databases: PostgreSQL, Oracle, MySQL

Visualization: Tableau, Power BI, Google Data Studio