







BHANUPRASADH SANTRA

 Portfolio  LinkedIn  GitHub  bhanuprasadh004@gmail.com  9701152083  Andhra Pradesh, India

EDUCATION

Bachelor of Technology - Computer Science (CGPA: 7.69),
Kakinada Institute of Engineering and Technology

Nov 2021 – Apr 2025 | Andhra Pradesh, India

- **Relevant Courses:** *Networking, Operating Systems, Data Structures and Algorithms, Databases, Statistics.*

SKILLS

Programming Languages — Python, Go, JavaScript, SQL, Bash, YAML

Frameworks — TensorFlow, PyTorch, Keras, Langchain, Spark, Hadoop, Flask, Django

Libraries — Scikit-learn, Hugging Face Transformers, Pandas, Numpy

DevOps & MLOps — Linux, Docker, Kubernetes, Jenkins, Terraform, Ansible, GitHub Actions, ArgoCD, GitOps, MLFlow

Cloud Platforms — AWS, Azure, Google Cloud, Civo Cloud

Databases — MySQL, MongoDB, SQLite, PostgreSQL

Version Control & Tools — Git/GitHub, GitLab, PowerBI

EXPERIENCE

AICTE, Cloud GenAI Intern - Remote

Jul 2024 – Present

- Built and deployed generative AI solutions using Google Cloud tools, optimizing workflows for development, data analysis, and security engineering.
- Designed AI-powered applications with Vertex AI and Gemini APIs, improving productivity in code generation, data retrieval, and multimodal processing.
- Applied Responsible AI principles, integrating fairness, bias mitigation, and privacy safeguards into AI models.
- Streamlined operations by implementing AI models for image generation, embeddings-based search, and multimodal data analysis.

PROJECTS

Intelligent Customer Support Chatbot, (LLM, RAG, GenAI)

Jan 2025

- Built a GPT-based chatbot with RAG to retrieve domain-specific knowledge.
- Developed a real-time query pipeline using Flask, Elasticsearch, and Pandas.
- Deployed on AWS with Docker, Kubernetes, Terraform, and CI/CD via Jenkins.

Predictive Maintenance System, (ML, Data Science)

Jan 2025

- Designed a predictive pipeline using TensorFlow and Scikit-learn for sensor data.
- Built ETL workflows with Pandas and SQL, visualized insights using Dash.
- Deployed on Azure AKS with Docker, Ansible, and Jenkins CI/CD pipelines.

Large-Scale Recommendation System, (Deep Learning, MLOps)

Jan 2025

- Created a recommendation engine with PyTorch and Matrix Factorization.
- Integrated Flask API with GCP Kubernetes and MongoDB for scalability.
- Automated CI/CD with Terraform, Jenkins, and monitored via MLFlow.

Multi-Cloud Fraud Detection System, (MLOps, Data Science)

Jan 2025

- Built a TensorFlow anomaly detection model with 98% precision.
- Deployed on AWS, GCP, and Civo using Bash, YAML, and Terraform.
- Automated pipelines with Docker, Kubernetes, and Ansible for real-time updates.

CERTIFICATIONS

Cognitive Class, Kubernetes Operators Intermediate 

Dec 2024

Google Cloud, Developed GenAI Apps with Gemini and Streamlit 

Aug 2024

Google Cloud, Prompt Design in Vertex AI Skill Badge 

Aug 2024

Google Cloud, Gemini Multimodality and Multimodal RAG Skill Badge 

Aug 2024

CODING PROFILE & ACHIEVEMENTS

- Solved around 200+ python problems, 50+ GoLang problems and 60+ SQL problems on Codechef.
- Earned a Merit Certification for completing the 50-week **Foundations of Modern Machine Learning (FMML)** program at **IIIT Hyderabad**, gaining expertise in ML fundamentals, algorithms, and practical applications.