

# BHANUPRASADH SANTRA

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## EDUCATION

**Bachelor of Technology - Computer Science (CGPA: 7.69),** Nov 2021 – Apr 2025 | Andhra Pradesh, India  
Kakinada Institute of Engineering and Technology

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

## SKILLS

**Languages** — Python, Go, SQL, Bash, YAML, JavaScript, HTML, CSS

**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, Vagrant, 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)** Feb 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)** Feb 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)** Sep 2024


- 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.