







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, JavaScript

AI/ML Frameworks — TensorFlow, PyTorch, Keras, Langchain, Hugging Face Transformers

Libraries — Pandas, Numpy, Scikit-learn, Flask, Django, Spark, Hadoop

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

Cloud Platforms — AWS, GCP (Google Cloud), Azure

Databases — MySQL, MongoDB, PostgreSQL, Elasticsearch

Version Control & Tools — Git/GitHub, GitLab, Bucket, Linux, Vagrant, Wrap, Pieces

EXPERIENCE

AICTE, Cloud GenAI Intern - Remote

Jul 2024 – Present

- Built and deployed **generative AI solutions** using **Google Cloud tools** (Vertex AI, Gemini APIs) to optimize workflows for development, data analysis, and security engineering.
- Designed **AI-powered applications** for code generation, data retrieval, and multimodal processing, improving productivity by 30%.
- Integrated **Responsible AI principles** (fairness, bias mitigation, privacy) into AI models, ensuring ethical deployment.
- Streamlined operations by implementing AI models for **image generation, embeddings-based search, and multimodal data analysis.**

PROJECTS

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

Mar 2025

- Built a GPT-based chatbot with Retrieval-Augmented Generation (RAG) to retrieve domain-specific knowledge in real-time.
- Developed a query pipeline using Flask, Elasticsearch, and Pandas for seamless data retrieval and processing.
- Deployed on AWS using Docker, Kubernetes, Terraform, and Jenkins CI/CD for automated scaling and updates.
- **Impact:** Reduced customer query resolution time by 40% and improved accuracy by 25%.

Predictive Maintenance System, (ML, Data Science)

Feb 2025

- Designed a predictive maintenance pipeline using TensorFlow and Scikit-learn to analyze sensor data and predict equipment failures.
- Built ETL workflows with Pandas and SQL, and visualized insights using Dash.
- Deployed on Azure AKS with Docker, Ansible, and Jenkins CI/CD pipelines for real-time monitoring.
- **Impact:** Reduced downtime by 20% and increased equipment lifespan by 15%.

Real-Time Sentiment Analysis for Social Media, (NLP, Deep Learning)


Sep 2024

- Built a real-time sentiment analysis model using PyTorch and Hugging Face Transformers to analyze social media data.
- Integrated with Kafka for real-time data streaming and Elasticsearch for efficient data storage and retrieval.
- Deployed on GCP using Kubernetes and Docker for scalable and efficient processing.
- **Impact:** Achieved 90% accuracy in sentiment classification, enabling brands to monitor customer feedback in real-time.


CERTIFICATIONS

Google, Developed GenAI Apps with Gemini and Streamlit 

Aug 2024

Google, Prompt Design in Vertex AI Skill Badge 

Aug 2024

Google, Gemini Multimodality and Multimodal RAG Skill Badge 

Aug 2024

CODING PROFILE & ACHIEVEMENTS

- Solved **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.