

# BHANUPRASADH SANTRA

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## EDUCATION

**Bachelor of Technology - (CGPA: 7.47),  
Kakinada Institute of Engineering and Technology**

Nov 2021 – Apr 2025 | Andhra Pradesh, India

- **Relevant Courses:** *Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases, Engineering Mathematics*

## SKILLS

**Languages:** Python, C++, JavaScript, SQL, Bash, YAML

**Frameworks:** TensorFlow, Keras, PyTorch, Flask, FastAPI, Hadoop, Spark, PySpark, Numpy, Pandas, Matplotlib, Seaborn

**MLOps:** Docker, Kubernetes, ML Flow, Terraform, Ansible, Jenkins, GitOps

**Tools:** Linux, Git, GitHub, MySQL, PostgreSQL, MongoDB, MS Excel, PowerBI, Tableau

**Cloud Platforms:** AWS, Google Cloud Platform (GCP), Azure

**Web Development:** HTML, CSS, Bootstrap, Node.js, Express.js

## PROJECTS

### Intent Classification (BERT, Python, TensorFlow)

- I developed a highly accurate intent classification model using the BERT architecture, achieving a 95 percent accuracy rate.
- The model was successfully deployed in a real-world application, effectively categorizing user queries and improving overall system performance.

### Credit Card Fraud Detection(Machine Learning, Data Analysis)

- Developed a machine learning model in Python using Scikit-learn to detect fraudulent credit card transactions.
- Integrated a Kaggle dataset for training, storing data in MongoDB, and achieved high accuracy in predictions.
- Built a Flask-based web interface for real-time fraud detection and deployment

### Diamond Price Prediction(Machine Learning)

- Built a machine learning model to predict diamond prices using features like carat, cut, and clarity.
- Applied regression techniques including Random Forest and Gradient Boosting for accurate predictions.
- Used Python libraries such as scikit-learn and pandas for data preprocessing, model training, and evaluation.

### Text Summarizer(Machine Learning, NLP, Hugging Face)

- Developed an NLP-based text summarization tool using extractive and abstractive methods, leveraging Python and Transformer models.
- Preprocessed large datasets and evaluated the summarizer using ROUGE metrics for accuracy.
- Implemented with libraries like Hugging Face and NLTK for efficient natural language processing.

## EXPERIENCE

### IIIT-Hyderabad, Machine Learning Intern - Remote

May 2022 – Jul 2022

- Developed machine learning models (Linear Regression, Support Vector Regression, Decision Tree, Random Forest, and Neural Networks) to predict YouTube adviews using a dataset of over 15,000 videos.
- Conducted comprehensive data preprocessing, including cleaning, transformation, normalization, and feature engineering to enhance model accuracy and performance.
- Evaluated and optimized model performance through error analysis and cross-validation, successfully selecting the best-performing model for adview prediction.

### AICTE,

### Google Cloud GenAI Developer Intern (Full-time) - Remote

Jul 2024 – Sep 2024

- Developed expertise in Vertex AI and Gemini for building generative AI applications, focusing on tasks like multimodal data processing and model fine-tuning.
- Designed and implemented diffusion models and Transformer-based architectures for AI-driven image generation and text classification.
- Gained hands-on experience with Responsible AI practices, exploring techniques for mitigating bias and enhancing AI transparency and privacy.
- Achieved proficiency in AI model deployment and MLOps workflows, optimizing the deployment and management of generative AI models.

## CERTIFICATIONS

### Google, Develop GenAI Apps with Gemini and Streamlit

Aug 2024

- Completed the "Develop GenAI Apps with Gemini and Streamlit" skill badge, demonstrating expertise in text generation and function calls using the Python SDK and Gemini API.
- Deployed a Streamlit application packaged in a Docker container using Cloud Run, iterating via Cloud Shell.

### Google, Multimodality and Multimodal RAG

Aug 2024

- Completed the "Inspect Rich Documents with Gemini Multimodality and Multimodal RAG" skill badge, showcasing proficiency in extracting information from text and visual data using multimodal prompts.
- Generated video descriptions and built metadata with Multimodal RAG for document citation and enhanced information retrieval with Gemini.

### Google, Prompt Design in Vertex AI

Aug 2024

- Demonstrated expertise in prompt engineering, image analysis, and multimodal generative techniques using Gemini models for marketing applications.