

BHANUPRASADH SANTRA

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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

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.

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.

EDUCATION

Bachelor of Technology, 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

ACHIEVEMENTS

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.