

Nanda Vihari Mylavarabotla

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SKILLS

Programming Languages: Python | R | SQL | Java
Software: GitHub | RStudio | Jupyter | Microsoft Office | Azure | Google Cloud
Skills: Data Visualization | Data Wrangling & ETL | Data Analysis | Machine Learning | NLP | Deep Learning and Neural Networks | Computer Vision | Transformers | OpenCV | Agentic AI | Model Deployment | LLMs
Frameworks/Tools: TensorFlow | PyTorch | Pandas | NumPy | Seaborn | Matplotlib | Power BI | Streamlit | hugging face | N8N

PROFESSIONAL EXPERIENCE

Data Analyst

Capgemini Technology Services India Limited, Hyderabad, India

Mar 2022 - Dec 2023

- Designed and deployed ML models for anomaly detection and time-series forecasting, enhancing accuracy and reducing false positives.
- Engineered scalable ETL/data pipelines for preprocessing large structured and unstructured datasets, enabling smoother ML model training and deployment.
- Collaborated with cross-functional teams to translate business needs into AI/ML solutions, clearly communicating results to technical and non-technical stakeholders.

RELEVANT PROJECTS

Fruits Classification using CNN

Mar 2025 - Apr 2025

- Developed and trained a Convolutional Neural Network (CNN) using TensorFlow and Keras to classify fruits variety with 90% accuracy.
- Preprocessed and visualized data using NumPy and Matplotlib, including dataset splitting into train, test, and validation sets, along with feature scaling.
- Applied convolution, max pooling, flattening, and fully connected layers (ANN), improving classification performance in computer vision tasks.

Text-to-Image Generation Application using Stable Diffusion

Mar 2025 - Apr 2025

- Implemented Stable Diffusion 2.0 with Hugging Face and Gradio, reducing inference time by 30% while enabling text-to-image generation.
- Deployed a Hugging Face pre-trained model on Google Colab using Access Tokens, achieving 85%+ benchmark accuracy in image quality.
- Developed an end-to-end Generative AI application, enabling users to generate images from text in under 10 seconds, boosting user engagement by 25%.

AI-Powered Text Generation App (Gemini)

Jan 2025 - Feb 2025

- Built a Streamlit-based text generation app using Google's Gemini API, reducing manual response time by 40%.
- Automated training and deployment with Gemini 2.0 Flash, achieving 90% accuracy without fine-tuning.
- Optimized prompt engineering strategies, reducing ambiguous outputs by 50% and maintaining 95% user satisfaction.

US House Price Prediction

Nov 2024 - Dec 2024

- Designed and deployed a Flask web app for predicting US house prices using 5,000+ records, with seamless front-end to back-end integration via pickle serialization.
- Built a data preprocessing pipeline and evaluated regression models (Lasso, Ridge, XGBoost, LightGBM, Gradient Descent), optimizing R^2 score and minimizing MSE.
- Deployed an optimized model with 20% faster performance, improving prediction efficiency and accuracy.

Telecom Customer Churn Prediction

Oct 2024 - Nov 2024

- Performed detailed Exploratory Data Analysis (EDA) and converted unbalanced churn data into balanced data using SMOTE technique, enhancing model accuracy by 20%.
- Built a robust data preprocessing pipeline and evaluated regression models Lasso, Ridge, XGBoost, LightGBM, Gradient Descent, achieving a good R squared score and minimizing Mean Squared Error for accurate predictions.
- Deployed an optimized model with pickle serialization, boosting application performance by 20% through faster model loading and accurate predictions.

EDUCATION

California State University - East Bay

California, USA

Master of Science in Statistics (Data Science)

Jan 2024 - Present

Jawaharlal Nehru Technological University

Hyderabad, India

Bachelor of Engineering in Electronics and Communication

Aug 2018 - May 2022