

Vansh Bansal

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Education

Vellore Institute Of Technology,Vellore

Expected May 2025

Bachelor of Technology in Information Technology(IT) (CGPA: 8.4)

Vellore,Tamil Nadu

- **Relevant Coursework:** Operating Systemes, Prob & Stats in CS (Python), OOPS, Database Systems.

Experience

CollabJn

June 2024

Data Analyst

Vellore, Tamil Nadu

- Implemented comprehensive **data scraping and analysis** to identify and categorize **potential leads from over 200 educational institutions**, increasing **lead generation accuracy by 50%** and **reducing processing time by 500%**.
- Analyzed response patterns and engagement metrics, leading to a **40% improvement in predicting high-potential leads**, which contributed to a **30% growth in successful event organization and client acquisitions**.

Projects

Network Security Data - End-to-End ML Project | MongoDB, MLFlow, Dagshub, FastAPI, Docker, Python

[Link](#)

- Designed and implemented an **end-to-end machine learning project**, covering all stages including **data ingestion, data transformation, model development, and evaluation**, to optimize workflow efficiency and scalability.
- Utilized **MLFlow** for comprehensive **model tracking** and **Dagshub** for version control, enabling detailed evaluation, comparison, and efficient experimentation throughout the ML lifecycle.
- Developed a **real-time prediction system** with a **FastAPI web interface**, integrating the model and data pipeline seamlessly, while leveraging **Docker** for containerized deployment.

Social Media Analytics for Influencer Insights | Python, Pandas, DeepFace, Flask

[Link](#)

- Built a system to identify **influencers driving the most engagement** by **extracting unique faces** from videos and calculating their **average performance scores** based on engagement metrics.
- Created a **3-stage pipeline** for **data cleaning, face analysis, and score aggregation**, ensuring scalability and seamless updates with new data.
- Utilized **DeepFace** for **image processing** and crafted scripts for handling diverse datasets, ensuring high-quality face extraction and robust transformation for actionable insights.

Comprehensive Credit Score Analysis and Predictive Modeling | Sklearn, Pandas, Numpy, Matplotlib

[Link](#)

- Executed an in-depth analysis of a **large credit score dataset**, containing over **100k rows and 25+ columns**, uncovering critical insights into customer credit behavior through advanced data exploration techniques.
- Performed **data cleaning** and created **visualizations** and **statistical reports** to analyze distributions, correlations, and trends for **feature selection and model optimization**.
- Formulated and **fine-tuned** predictive models, leveraging dimensionality reduction techniques to enhance model accuracy and efficiency, achieving a **76% accuracy** in credit score predictions.

Energy Price Prediction Using ML | Sklearn, Pandas, Numpy, Matplotlib, Seaborn

[Link](#)

- Developed a machine learning model to forecast **next-day energy prices** using **historical data**, achieving a prediction accuracy **improvement of 45%** through the implementation of various ML algorithms.
- Engineered a comprehensive **data pipeline** for **preprocessing, feature engineering, and model evaluation**, resulting in **improved prediction accuracy by 15%**.
- Utilized advanced techniques such as PCA for feature selection and **GridSearchCV** for **hyperparameter tuning**, optimizing model performance across multiple evaluation metrics.

Technical Skills

Languages: C , C++ , Python , HTML , SQL

Technologies: NumPy, Pandas, Matplotlib, BeautifulSoup, Selenium, Tableau, SKlearn, Git, LangChain

Concepts: Data Structures and Algorithms, Data Analysis, Machine Learning, GenAI, LLMs, OpenAI, HuggingFace

Certifications: Data Structures and Algorithms by Coding Ninjas