KESHAV SAHNI

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ABOUT

Detail-oriented Data Science PGP student with a Bachelor's degree in Computer Applications from Great Learning and hands-on experience in web application development. Proficient in SQL, Python, EDA and Machine Learning with strong skills in exploratory data analysis. Passionate about applying programming and analytical expertise to build innovative and data-driven solutions.

SKILLS

Data Analysis & Wrangling: SQL (Joins, Sub-Queries, Window Functions, Transactions), **Python** (Pandas, NumPy, Scikit), **Excel** (Pivot Tables, VLOOKUP, HLOOKUP)

Machine learning: Supervised - Linear & Logistic Regression, KNN, Naive Bayes, Decision Trees, Random Forest, AdaBoost, Gradient Boosting, XGBoost, Voting & Stacking Models, Hyperparameter Tuning, Unsupervised- K-Means, Agglomerative Clustering, DBSCAN, PCA, LDA

NLP & Generative AI: Text Preprocessing, Tokenization, Word Embeddings, BERT, GPT, LLMs, Transformers, Prompt Engineering, RAG models, MLOps

EDA & Data Visualization: Outlier analysis, Feature engineering, Matplotlib, Seaborn

Tableau, Power BI: Statistics and Analytics - Probability Distributions, Hypothesis Testing (Z-Test, T-Test, Chi Square, ANOVA)

Technical Skills: Data Modelling, MS Power Point, Model Deployment using Streamlit(Front-End Application), AWS (S3, EC2, Redshift, Lambda, IAM, VPC, Data Lake Architecture)

PROJECTS

Structural Defect Detection using Generative AI 🔗

- Developed a Generative AI–powered computer vision application using Python, LLMs, and Computer Vision techniques to analyze structural damage from uploaded images
- Implemented image preprocessing, visual feature extraction, and LLM-based reasoning to assess damage severity
- Generated AI-driven insights and safety recommendations using Prompt Engineering, Transformers, and GPT-based models
- Built an interactive user interface using Streamlit for real-time image upload and analysis
- Designed an end-to-end AI pipeline covering image input, inference, and explainable output

Technologies: Python, Generative AI, Large Language Models (LLMs), Computer Vision, Transformers, GPT, Prompt Engineering, Streamlit

Hotel Booking Cancellation Prediction 🔗

- Built a machine learning classification model using Python and Scikit-learn to predict hotel booking cancellations
- Performed data cleaning, feature engineering, and Exploratory Data Analysis (EDA) using Pandas, NumPy, Matplotlib, and Seaborn
- Trained and evaluated models including Logistic Regression, Decision Tree, Random Forest, and XGBoost
- Optimized model performance using hyperparameter tuning and cross-validation techniques
- Derived actionable insights to support revenue optimization and demand forecasting

Technologies: Python, Pandas, NumPy, Scikit-learn, Machine Learning, EDA, Logistic Regression, Random Forest, XGBoost, Data Visualization

Health NGO Data Analysis & Insights 🔗

- Conducted data analysis on NGO healthcare datasets using Python and SQL to identify operational trends
- Applied statistical analysis techniques including hypothesis testing and descriptive statistics
- Created meaningful data visualizations using Matplotlib, Seaborn, and Tableau/Power BI
- Built insight-driven reports to assist data-driven decision making for non-profit initiatives

Technologies: Python, SQL, Statistics, Data Analysis, Matplotlib, Seaborn, Tableau, Power BI

EXPERIENCE

Industrial Training – NOVEM Controls Mohali (Punjab)   05/2024 – 07/2024

- Completed 6 months of industrial training under professional supervision
- Worked on Learning Management System (LMS) and related modules
- Gained hands-on experience in system development, maintenance, and documentation
- Demonstrated strong technical skills, teamwork, and problem-solving abilities
- Followed company policies, including confidentiality and intellectual property guidelines
- Actively contributed to project tasks and deliverables

EDUCATION

PGP in Data Science with Specialization in Gen AI   06/2025 – 01/2026
Great Lakes Institute of Management

Bachelor's degree in computer application   2022 – 2025
Chitkara University, Rajpura – 9 CGPA