Analyst
KARAN TEKCHANDANI

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~A Data-driven analyst with expertise in SQL, Python, and visualization tools, eager to apply problem-solving skills to real-world business challenges and contribute meaningful insights.

SKILLS

- **PROGRAMMING LANGUAGES:** Python, JavaScript, HTML
- **LIBRARIES:** NumPy, Pandas, Matplotlib, Seaborn, Beautiful-Soup, Selenium, Scikit-Learn, Requests
- **DATABASE MANAGEMENT SYSTEMS:** MySQL, PostgreSQL
- **DASHBOARDING:** Tableau, Power BI (DAX, Power Query, Dashboarding, Time Series Analysis)
- **STATISTICS:** Descriptive, Inferential, Probability, A/B Testing, SPSS
- **MACHINE LEARNING:** Regression, Classification, Clustering, Cross Validation, Metric Evaluation (Confusion matrix, accuracy, precision, recall)
- **OTHERS:** AWS (S3, IAM, EC2), Alteryx, Networking, Linux, Google Sheets, Excel (X-lookup, V-Lookup, Index-Matching, Conditional Formatting, Pivot Tables, VBA, Macros), Microsoft Office Suite(Word, Excel, PowerPoint, Access, etc.)
- **SOFT SKILLS:** Analytical Mindset, Attention to detail, Written and Verbal fluency in English and Hindi, Problem Solving

PROJECTS

DELAY PREDICTION ANALYSIS AND DASHBOARDING FOR CARGO COMPANY – *Personal Project – Delhi, India*   January 2025

- Built a predictive model (Random Forest- NumPy, Pandas, Scikit-Learn) to forecast shipment delays with 97.5% accuracy, enabling a 15% reduction in logistics downtime. Integrated Power BI dashboards that allowed stakeholders to track real-time delivery performance.
- Simulated, cleaned, modelled and evaluated data in python, derived insights from PostgreSQL and finally created a dashboard with Power BI.

END TO END DATA ANALYSIS OF SALES DATA – *Personal Project – Delhi, India*   December 2024

- Extracted dataset from Kaggle, cleaned, and visualized data using Python libraries (Pandas, NumPy, Matplotlib, Seaborn).
- Conducted statistical analysis, exported data to Excel CSV, and performed advanced querying in PostgreSQL using CTEs.
- Built an interactive Power BI dashboard that improved business insights and decision-making efficiency by 20%.

AGRICULTURAL LAND CLASSIFICATION AND ANALYSIS – *Internship Project – Remote*   October 2024

- Developed supervised models using Google Earth Engine (GEE), QGIS, and Random Forest algorithms to classify land use patterns.
- Improved classification accuracy by 10% through advanced modelling techniques and rigorous data preprocessing.
- Provided actionable insights for sustainable agricultural practices through precise land classification.

MUSIC STORE SALES DATA ANALYSIS – *Personal Project – Delhi, India*   September 2024

- Performed multi-table joins (self-joins, cross joins), designed database schema, and imported CSV data.
- Broke down complex queries with the help of CTE's, subqueries and window functions and applied data manipulation techniques like update, delete, insert, case when-then.
- Extracted useful data from a large database with the help of statistical, time and window functions, thereby improving data accessibility by 10%.

WORK EXPERIENCE

DATA SCIENCE INTERN – Dimitra – *British Virgin Islands, Tortola*   **[CERTIFICATE]**   March 2024 - Sept 2024

- Collaborated with cross-functional teams to analyze and validate large datasets, ensuring accuracy and relevance.
- Effectively communicated insights via reports & presentations.
- Managed multiple projects, ensuring on-time delivery in a fast-paced environment.
- Ensured high-quality data by implementing rigorous validation techniques, contributing to a 10% improvement in model accuracy.
- Deployed Random Forest model for classification in JavaScript which was used to classify different kinds of structures in a real world like grasslands, natural forests, plantation forests, water, etc. and places where deforestation took place, with an accuracy of over 93%.

EDUCATION AND CERTIFICATIONS

- **BACHELOR IN COMPUTER APPLICATIONS** *(8.7 CGPA)* – **Vivekananda Institute of Professional Studies, GGSIPU** – *Delhi, India* June 2023
- **CERTIFICATIONS** – Advanced SQL Certification (Hacker-Rank) | Google Data Analytics| Data Science (Coding-Blocks)