Analyst

KARAN TEKCHANDANI

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

WORK EXPERIENCE

DATA SCIENCE INTERN – Dimitra – *British Virgin Islands, Tortola* **Experience Letter** March 2024 - Sept 2024

- Collaborated with cross-functional teams to analyze and validate large datasets, ensuring data accuracy, consistency, and business relevance.
- Managed multiple data-driven projects in a fast-paced environment**,** delivering insights and reports on time to support decision-making**.**
- Enhanced data quality through rigorous validation techniques**,** improving model accuracy by 10% and ensuring reliable predictions**.**
- Developed and deployed a Random Forest classification model in JavaScript**,** accurately classifying grasslands, forests, plantations, water bodies, and deforestation sites with 93% accuracy for real-world applications.

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)

SKILLS

- **PROGRAMMING LANGUAGES:** Python, JavaScript, HTML
- **LIBRARIES:** NumPy, Pandas, Matplotlib, Seaborn, Beautiful-Soup, Selenium, Scikit-Learn, Requests
- **DATABASE MANAGEMENT SYSTEMS:** MySQL, PostgreSQL
- **DATA VISUALISATION:** Tableau, Power BI
- **STATISTICS:** Descriptive, Inferential, Probability, A/B Testing, SPSS
- **MACHINE LEARNING:** Regression Analysis, Predictive Analysis, Time Series Analysis, Classification, Clustering, Cross Validation, Metric Evaluation (Confusion matrix, accuracy, precision, recall, Kappa Coefficient)
- **OTHERS:** AWS (S3, IAM, Athena, EC2), Google Sheets, Advanced Excel, Microsoft Office Suite, Networking (IP, Topologies, Subnetting, Network Testing), Linux, Trello
- **LANGUAGES:** Analytical Mindset, 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

PROBLEM: Shipment delays were causing inefficiencies and increasing logistics downtime.

SOLUTION AND TOOLS: Built a Random Forest predictive model using NumPy, Pandas, Scikit-Learn, cleaned and modeled data in Python, and performed advanced PostgreSQL queries. Integrated Power BI dashboards for real-time tracking.

IMPACT: Achieved 97.5% model accuracy, reducing logistics downtime by 15% and enabling better decision-making for stakeholders

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

PROBLEM: Lack of structured insights from raw sales data led to ineffective decision-making.

SOLUTION AND TOOLS: Extracted and cleaned data from Kaggle, performed statistical analysis using Pandas, NumPy, visualized trends with Matplotlib & Seaborn, and optimized PostgreSQL queries with CTEs and window functions. Built a Power BI dashboard for reporting.

IMPACT: Improved query efficiency, increased data accessibility by 10%, enhanced data-driven decisions, and increased business insights by 20%.

- **AGRICULTURAL LAND CLASSIFICATION AND ANALYSIS –** *Internship Project – Remote* August 2024

PROBLEM: Inefficient land classification methods affected accuracy in analyzing land use patterns.

SOLUTION AND TOOLS: Used Google Earth Engine (GEE), QGIS, and Random Forest algorithms to classify land types, applied data preprocessing techniques, and optimized model performance.

IMPACT: Improved classification accuracy by 10%, providing better land-use insights for agricultural planning.