DHAVAL VIBHAKAR

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WORK EXPERIENCE

Dual Fuel Corp   July 2023 – Present
Data Analyst   Mount Vernon, New York
- Engineered a Python-based ingestion pipeline (OpenCV, Docker, SQL) to process and validate large, multi-source datasets, decreasing manual data entry time by 80% and increasing faster, more accurate reporting for cross-functional teams.
- Optimized business support by compiling sprint docs and stakeholder input into exec reports, reducing release cycle time by 20%.
- Modeled ARIMA-Keras models to predict consumption trends, improving accuracy by 15% and enhancing better resource planning.
- Pioneered and deployed REST APIs in Python (Flask) to power real-time sensor dashboards, enabling secure high-volume data retrieval for 20+ building systems and downsizing diagnostic timelines by 60%.
- Revamped billing audit system by reverse-engineering datasets, reconciling $1M+ discrepancies and streamlining validation process.
- Piloted A/B testing on UI features, accelerating task completion by 27% and adoption across clients, resulting in user satisfaction.
- Spearheaded quoting tool with directors in Microsoft Excel, cutting proposal time by 50% and sharpening pricing accuracy.
- Built and managed AWS API Gateway endpoints integrated with Lambda and Terraform for automated ingestion pipelines, processing millions of sensor records monthly with zero downtime.
- Addressed stakeholders to translate analytical findings into actionable insights, boosting operational efficiency by 15%.

NYS Offices of General Services   June 2022 – September 2022
Data Analyst Intern   Albany, New York
- Analyzed claim records and reimbursement data using SQL, increasing reporting accuracy and decreasing validation errors by 20%.
- Validated 3+ Crystal Reports for procurement QA, ensuring accurate contract reporting and preventing downstream payment errors.
- Designed Power BI dashboards from multi-source data, exposing SLA breaches and lowering issue resolution time by 25%.
- Empowered teams with self-serve analytics via Power BI dashboards, reducing IT dependency for reporting and analysis by 30%.
- Audited 500+ vendor invoices monthly in SAP, recovered $20K+ in overcharges, and ensured compliance with contract terms.

Insight Business Machine Pvt. Ltd   March 2020 – April 2021
Data Analyst Intern   Maharashtra, India
- Structured Alteryx workflows with CRM data to automate campaign prep and free 20+ hours weekly for marketing focus.
- Shipped 5+ Qlik Sense dashboards for automated weekly reporting, aligning sales and marketing teams around real-time KPIs.
- Performed audience segmentation using SQL and Alteryx, enabling targeted outreach across 10+ high-value customer cohorts.
- Examined equity and futures data sets for a finance client, producing a 15% improvement in portfolio reporting accuracy and accelerated delivery by 2 days, which aided faster decisions.
- Mapped 4+ marketing tools into CRM to unify attribution, enhancing pipeline accuracy and optimized data gaps by 20%.

ACADEMIC PROJECTS

Space X: Capstone Project by IBM   January 2023 – March 2023
- Trained classification models (Logistic Regression, SVM, XGBoost) using Python to predict landing success with 80% accuracy.
- Queried SpaceX launch metadata using 50+ SQL statements to extract features related to mission success and reuse history.

Healthcare Billing & Analytics   September 2022 – December 2022
- Designed relational schema, SQL views to calculate KPIs such as claim count, processing time, revenue across 1K+ billing records.
- Revamped SQL queries with indexing and optimization, slashing run times by 50% and resolving reporting bottlenecks.

EDUCATION

Pace University   September 2021 – May 2023
Master of Science in Management Information Systems | **Specialization**: Data Analytics   New York, NY
Shree L R Tiwari College Of Engineering   June 2017 – May 2021
Bachelor of Engineering in Information Technology   Maharashtra, India

TECHNICAL SKILLS & Certifications

Programming Languages : Java, Python (Pandas, NumPy, scikit-learn), R, Bash, REST API Development, Flask/FastAPI, Airflow (Pipeline)
ML Modeling: A/B testing, Logistic Regression, XGBoost, KNN, SVM, Predictive Modeling, TensorFlow
Database Management: MySQL Server, Snowflake, MongoDB | **Gen AI** : ChatGPT, Claude, prompt engineering, LLM APIs
Cloud Platforms: AWS (S3, EC2), GCP, Spark, Hadoop, Terraform
Data Visualization Tools: Tableau, Power BI, Qlik Sense, Google Analytics 4, Databricks, SAS
Relevant Coursework: Business Analytics and Statistics, Data Science 1: Data Analysis, Web Mining, Database Programming
Certifications: AWS Certified Solutions Architect – Associate, IBM Data Science, Google Analytics Certification