

ABHISHEK PANCHAL

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EDUCATION

Stevens Institute of Technology, School of Business | Hoboken, USA December 2024
Master of Science in Business Intelligence and Analytics (Data Science Track)
Relevant course work – Business Intelligence & Data Integration, Web Mining, Data Analytics & Machine Learning

K.J.Somaiya College of Engineering, University of Mumbai | Mumbai, India October 2020
Bachelor of Technology in Electronics & Telecommunication Engineering

PROFESSIONAL EXPERIENCE

Business Intelligence Analyst | eClinicalWorks | Boston, USA January 2025 - Present

- Created an OLS Multiple Linear Regression model that aided in comprehending the statistical significance of factors like patient and provider demographics on edit rates. The model was developed for **5,500** encounters across **30** providers.

Business Intelligence Intern | eClinicalWorks | Boston, USA June 2024 - December 2024

- Tested new PCMH package on Medicare and Medicaid data, in IBM Cognos, optimising the SQL query in IBM Cognos Query Studio, enhancing the report execution time by **20%** and customer satisfaction by **10%**.
- Developed Power Automate query to create **100+** test patients for testing **28** different UDS reports.

Data Engineer | Accenture | Mumbai, India July 2022 - July 2023

- Engineered data pipelines using **python** and **ab initio** scripts to automate end-to-end data management processes for **2 million records**, encompassing data validation, ingestion, cleaning, analysis & transformation, filtration, and comparison.
- Developed standard and ad hoc reports using MySQL & MSSQL, leveraged SQL queries to gain insights on failed transactions, enabling identification of issues and decision-making, resulting in a **25% reduction** in financial errors.
- Presented QA reports to higher management, identified error trends and patterns in datasets to support the development and suggesting ways to improve app performance of multiple teams.
- Created real time dashboards in data visualization software **Qlikview** to visualize and monitor key metrics and batch processes using internal data which reduced manual efforts by 30%.
- Collaborated with three senior team members to create a new **ETL** capability within the existing framework, optimizing data extraction, transformation, and loading processes, resulting in a **50%** reduction in daily manual effort.
- Led end-to-end analysis and documentation of business requirement, driving the design of optimized data models, data flow, and data cleansing scripts, reducing **manual efforts** by **50%** and enhancing data integrity.

Application Developer Associate | Accenture | Mumbai, India December 2020 - June 2022

- Built ETL jobs using **Ab initio** for **Batch pipeline**, troubleshoot data integration solutions with complex data transformations to enhance the Business process, reducing efforts by 20%.
- Created new analytical component for batch status in Qlikview which saved **1hr/day** in getting batch insights.
- Presented reports and insights on KPI progress to senior management and stakeholders, utilizing the **QlikView** Dashboard, resulting in a **15% increase** in productivity and a **10% improvement** in on-time **SLA** performance.
- Architected a scalable **table schema** to efficiently store historical data, enabling seamless retrieval and analysis of past trends and patterns; optimized data storage and **retrieval time by 40%**.
- Awarded Excellence to Commitment for contribution in integrating new application within current framework.

TECHNICAL SKILLS

Programming Languages / Frameworks - Python, C++, Java, R, SQL, PySpark, Kafka.

Database Systems - Oracle DB, MySQL, Postgres, Teradata, NoSQL (MongoDB).

Tools - Abinitio, Alteryx, Erwin, QlikView, Tableau, Power BI, Docker, mlflow, evidently ai, GIT, Jupyter, Microsoft Office Suite.

Concepts - Data Architecture, Data Warehousing, Data Mining, Data Infrastructure, Dimensional Modeling, Data Modeling.

Cloud - Amazon Web Services (AWS Lambda, S3, EC2, Kinesis, DynamoDB), Google Cloud Platform (GCP).

ACADEMIC PROJECTS

Data Engineering Uber Analytics | Python, Pandas, Numpy, GCP, Mage-AI September 2023 - December 2023

- Developed a comprehensive data model encompassing fact and dimension tables, driving the creation of intuitive dashboards and analytics; resulted in a **40% reduction** in decision-making time and enabled data-driven business growth.
- Streamlined data processing by utilizing mage-ai, resulting in a **30% improvement** in batch pipeline efficiency and reducing manual intervention. Deployed code on Google VM instance, leveraged **GCP storage** for seamless data storage.

Real Time Stock Analysis | Kafka, Python, Pandas, Matplotlib May 2023 - July 2023

- Architected a **real-time** data streaming pipeline using **Kafka**, and developed a continuously updating analytics dashboard, achieving improvement in data processing speed and actionable business insights.