Sushant Mahadik

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EDUCATION

Northeastern University, Boston, Massachusetts   *May 2023*
Master of Science, Engineering Management
   Data Management and Database Design, Data Mining, Statistics, Data Science, Machine Learning
University of Mumbai, Mumbai, India
Bachelor of Engineering, Electronics and Telecommunications   *June 2017*
- Data Compression & Encryption, Wireless Networks, OOPM, Image & Video processing, Advanced Statistics

TECHNICAL SKILLS

- **Languages and Cloud:** SQL, Python, R, C, C++, VBScript, Azure, AWS (EC2, S3, Lambda, Redshift, DynamoDB)
- **Database and ETL:** SQL Server, MySQL, MongoDB, PL/SQL, Big Query, Microsoft SSIS, Airflow, Informatica MDM
- **Analytics:** Tableau, Looker, PowerBI, Microsoft Excel, SSRS, QlikSense, Flourish, Datawrapper
- **Libraries and Tools:** Pandas, Jupyter, Seaborn, Rshiny, Plotly, JIRA, Microsoft Office, Microsoft Powerpoint
- **Certifications:** Google Data Analytics Professional Certificate, Microsoft Azure AZ-900

WORK EXPERIENCE

Accenture Services Pvt. Ltd.
Data Engineer and Analyst (Client – Adecco Group)   *Nov 2017 – July 2019*
- Managed end-to-end functioning of client application involving **data transfer, data warehousing and reporting** using Microsoft SQL Server, Microsoft SSIS, Informatica MDM, Excel & Power BI
- Developed new **stored procedures, packages**, modified existing ones and performed **indexing** on the tables using Microsoft SQL & SSIS which increased the data transfer speed upto **3x** and reduced query run time by 9%
- **Developed reports** based on the data using Excel & Power BI to ensure data integrity and **created dashboards** to derive **insights** that could help devise future business plans for the clients
- Improved and modified the **security** module of the application which helped increase the application security by 67%
- Analyzed system malfunctioning if any and performed **root cause analysis** to ensure that the application was up and running all the time which improved uptime by 96%
- Ensured effective **communication** with clients by having regular meetings with them to discuss daily workflow procedures and implementation of new functionalities, resulting in a 15% increase in productivity

Data Analyst (Client – Mondalez International)   *Aug 2019 - Dec 2020*
- Extracted and analyzed over **1 million** transactional records per month using SQL and Python to perform initial analysis and Data exploration
- Implemented **data pre-processing** techniques to handle missing and inconsistent data, such as **imputation**, data **normalization** and **dimension reduction** which improved the accuracy and reliability of data by 71%
- Applied **statistical techniques** such as regression analysis and hypothesis testing to gain insights from data, resulting in the identification of key consumer satisfaction metrics such CRR and CSAT
- Created **interactive dashboards** using data visualizations using tools such as Tableau, PowerBI, and Matplotlib to enable stakeholders to explore and analyze data in real-time leading to a 20% reduction in decision-making time

Virtual Internships

BCG - Data Science and Analytics Internship   *Dec 2022*
- Worked on various tasked assigned such as **data exploration, data modelling and deployment** using Python, which were based on actual historical business use cases
- Communicated the action plan and the insights to the clients through **presentations** and interactive dashboards built using Tableau

PROJECTS

Worldwide Coffee Market Analysis   *Oct 2022 – Dec 2022*
R, Dplyr, Tidyr, Tableau, Excel,
- Performed analysis of Coffee market around the world by collecting data using **web scrapping**, performing **data transformation** using R and developing dashboards using Tableau. Bagged the best project award

AirBnB Listing Price Prediction   *Jan 2022 - Mar 2022*
Python, Pandas, Seaborn, Scikit-learn, Linear Regression, XGBoost, Data Cleaning, Dimension Reduction, PCA.
- Developed a prediction model to estimate the prices of the AirBnB listings of major cities of United States using linear regression, **univariate and multivariate** analysis, XGBoost and achieved a r2 score of 89%

US Traffic Accidents Analysis   *Nov 2021 - Dec 2021*
Python, Logistic Regression, Decision Tree, Random Forest, Data Cleaning
- Built a prediction model to anticipate the occurrence of an accident using logistic regression, Decision Tree and Random Forest by cleaning and **feature engineering** a large dataset and achieved a F-1 score of 0.92