

Ankita Ashok Dalvi

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PROFESSIONAL EXPERIENCE

The University of Texas at Dallas - Richardson, Texas

Aug 2023 - Dec 2023

Graduate Teaching Assistant

- Aided students in Python with tasks involving Data Cleaning and Manipulation, supporting them in effectively handling large datasets.
- Demonstrated strong communication and interpersonal abilities by collaborating with the Professor to identify common student challenges and propose solutions to enhance curriculum understanding.

Tata Consultancy Services | Aegon Life Insurance Ltd - Mumbai, India

Jan 2019 - July 2022

System Engineer - Data Analyst

- Developed complex **SQL** queries, Views and Stored procedures using aggregate functions, joins, sub queries, window functions to serve custom analysis requests from client and facilitate report creation, increasing user efficiency by 20%.
- Engineered data pipelines by implementing **Extract, Transform, Load (ETL)** processes on multi-source finance data using **Python**, resulting in a 40% reduction in data processing time and enabling the Business Intelligence team to analyze data effectively.
- Utilized data-driven and analytical approach to develop **Power BI** dashboards offering a comprehensive view of ticket data sourced from MS Dynamics CRM, which included key metrics and breakdowns by origin and time, enhancing the status of ticket tracking efficiency by 30%.
- Conducted in-depth analysis of claims data, utilizing **Data Visualization** techniques in **Python**, to leverage decision making in risk assessment and claims management.
- Identified and resolved discrepancies in data obtained from **AWS Lambda** API employed for generating cases in CRM for customer support calls received via Ameyo.
- Led a team in conducting **Data analysis** for incident data using **Excel** (Pivot tables, conditional functions) and achieved 35% reduction in SLA breach numbers.

PROJECTS

Used Vehicles Sale Price Prediction (Machine Learning Algorithms, Python - NumPy, Pandas, Seaborn, Scikit-Learn)

Jan 2024

- Data Analysis using statistical tools and data preprocessing using Pandas and NumPy library was performed on real-world historical dataset with 226,013 records.
- Performed exploratory data analysis (EDA) that unveiled trends, and critical correlations, offering valuable insights for enhancing Sale Price predictions.
- Several Regression model pipelines were built and tested using scikit-learn library to predict the sale price with a 61% to 70% model accuracy range, highest being XGBoost regressor with 69.93%, while identifying key features like ACV, Primary Damage Type, and Run Condition crucial for accurate predictions.

Truck Fleet Analysis (HDFS, SQL, Hive, Tableau)

Oct 2023

- Managed the end-to-end data life cycle, initiating with the ingestion of truck models, driver details, and driving events data from local systems into the **HDFS**.
- Executed DDL queries in Hive within the Hadoop environment (HDFS), utilizing effective data management practices to maintain data integrity and consistency.
- Loaded data from HDFS to Tableau using ODBC driver and performed data analytics by creating Tableau dashboards to analyze driving events and identify high-risk drivers, truck models and cities across the USA, to optimize fleet operations and enhance safety measures.

Job Market Analysis (Power BI)

June 2023

- Leveraged Power Query functionality to import and preprocess data. Devised data cleaning to ensure data accuracy and consistency.
- Identified quantitative KPIs and patterns in the job market data. Also, utilized DAX in Power BI to create calculated columns and measures for thorough data analysis.
- Designed interactive Dashboards, incorporating visualizations such as Cards, tables, Tree maps, Bar charts, Line charts, Scatter plots, Slicers, Filters in Power BI, to effectively communicate market trends and insights derived from the data.

Scanner Data Analysis (Python, Tableau, SAS, Regression)

April 2023

- Conducted in-depth research and analysis of scanner data for butter and margarine sales in the USA over a 5-year period (~1 million rows).
- Utilized Python and Tableau to identify seasonal fluctuations, regional preferences, competing brands, thereby providing recommendations to optimize inventory management, pricing strategy and marketing efforts for respective products.
- Used SAS to perform Regression analysis to predict the market share of brands using average price per volume, merchandising, average price decrease during merchandising to optimize sales and maximize profitability.

Database Designing for Elite Video (MySQL)

Dec 2022

- Implemented a MySQL database model for Elite Video, focusing on optimizing data storage and retrieval efficiency while ensuring data accuracy and reliability.
- Employed data modeling techniques to define the structure and relationships between entities, enhancing the organization of customer, product, and sales data.
- Engineered loading of 10,000+ records and leveraged SQL components to automate routine database management tasks, including data quality and validation checks.

TECHNICAL SKILLS

Programming Languages: Python, SQL, R, SAS, C# (.NET), JavaScript

Data Analytics: Power BI, Tableau, Looker, SQL Server Reporting Services (SSRS), Microsoft Excel, Matplotlib, Seaborn, ggplot2, plotly

Databases: Microsoft SQL Server, MySQL, PostgreSQL, DynamoDB

Machine Learning: Scikit-Learn, Keras, TensorFlow, Pandas, NumPy, SciPy, Statsmodels

Time Series models: AR, MA, ARMA, ARIMA

Statistical Framework: Descriptive Statistics, Hypothesis Testing, Confidence Intervals, Regression Analysis, A/B Testing

Cloud & Deployment: Amazon Web Services (AWS), Microsoft Azure, Docker, Kubernetes, Jenkins

EDUCATION

The University of Texas at Dallas - Richardson, Texas

Aug 2022 - May 2024

MS Business Analytics, Concentration: Data Science

GPA: 3.945/4.00

- Coursework: Database foundation, Advanced Statistics, Business Analytics with R, Applied Machine Learning, Applied Deep Learning, Predictive Analytics, Prescriptive Analytics, Applied Econometrics and Time Series Analysis, Data Warehouse, Big Data, AWS Cloud Analytics
- Honored with **Scholar with High Distinction** designation for academic excellence at UT Dallas

University of Mumbai - Mumbai, India

Aug 2014 - June 2018

Bachelor of Engineering, Electronics and Telecommunication

GPA: 8.89/10

CERTIFICATIONS

Tableau Business Intelligence Analyst

May 2024

Google Data Analytics

April 2024

AWS Certified Cloud Practitioner

July 2023