Avesha Saif

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Education

Illinois Institute of Technology, Chicago (Masters, Data Science)

Jan 2024 - Dec 2025

• Coursework: Statistical Learning, Database Organization, Time Series Analysis, Machine Learning, Big Data Analytics, Data Preparation and Analysis, Cloud Computing

GPA: 4.0

National University of Computer and Emerging Sciences, Karachi (Bachelors, Computer Science) Aug 2019 - June 2023

• Achievements: Awarded the Dean's List Certificate

Skills

- Programming Languages: Python, R, SQL, NoSQL
- Technologies & Tools: Excel, Power BI, Tableau, Airflow, Pandas, Matplotlib, NumPy, Seaborn, SciPy, Scikit-Learn, Apache Spark, Snowflake, PySpark, AWS, Azure, GCP, Databricks, Docker, ETL, Terraform, Kubernetes, Linux, Git/GitHub, Jira
- Business Analyst: Exploratory Data Analysis, Artificial Intelligence, Statistical Analysis, Predictive Modelling, KPI Reporting, Market Analysis, Time Series Forecasting, Cloud Computing, Data Visualization, Big Data, Operational Reporting, Forecasting Models, Google Sheets, SAS

Professional Experience

Data Analyst, Labelmaster

Chicago, IL | Jan 2025 - June 2025

- Conducted in-depth analysis of transactional, **PPC**, and **SEO** metrics using advanced **Excel functions** and **Power BI** to identify cost drivers, resulting in a **10%** reduction in keyword spend through budget reallocation.
- Utilized **association rule analysis** to propose and refine product bundling strategies, achieving an **8%** increase in cross-sell revenue and fostering data-driven decision-making.
- Applied text analytics to optimize SEO keyword usage, boosting organic clicks by 12% and enhancing overall digital performance.
- Supported operational forecasting and resource planning by integrating sales trends with inventory movement and promotional spend data, improving KPI tracking and cost accuracy.

Data Analyst, Sofy

Seattle, WA | Jun 2023 - Dec 2024

- Streamlined reporting processes by 60% through automation with Power BI and Excel dashboards, expediting critical decision-making and supporting continuous improvement initiatives.
- Enhanced data accuracy by 30% using SQL and Azure Data Factory for sales data validation, ensuring reliable metrics for operational assessments and KPI monitoring.
- Conducted regression analysis of historical data trends, optimizing resource allocation, resulting in 25% increase in campaign ROI.
- Performed detailed churn analysis and customer segmentation with Excel and **Python**, reducing customer **churn** by **15%** and contributing to improved operational efficiency.

MLOps Engineer, Pumpjack Dataworks

Karachi, Sindh | Jan 2023 - May 2023

- Reduced deployment time by 75% via CI/CD pipelines using Docker and Git, enabling 5+ scalable AWS deployments.
- Used **K-Nearest Neighbors** to classify incidents by location, identifying 5 critical hazard zones for targeted interventions.
- Implemented the **Random Forest** algorithm for accurate **classification** of safety incidents based on keyword data, achieving **85%** accuracy in routing incidents to the relevant departments.

Projects

Customer Satisfaction Analysis (NLP Text Classification, Feature Engineering, Predictive Modeling, Visualization)

- Developed an end-to-end **Python classification pipeline** for **e-commerce** reviews, supporting proactive retention.
- Improved model accuracy by 72% and raised negative-review recall by 65% via feature engineering and hyperparameter tuning.
- Identified late deliveries as a **key factor** behind negative feedback, **boosting** customer satisfaction.

Sales Analysis & Reporting with SQL and Tableau (SQL Analytics, Interactive Dashboards, Business Intelligence)

- Queried historical sales data in **SQL** Server to identify **top-performing product lines, deal sizes,** and **annual revenue trends**.
- Created interactive **Tableau dashboards** with **monthly, geographic**, and **product-level insights**, highlighting **seasonal peaks** and informing strategic decisions.

COVID-19 Data Analysis, Visualization, and Forecasting (ML Models, Hyperparameter Tuning, Visualization)

- Achieved 90%+ accuracy in trend forecasting using Logistic Regression, Decision Trees, Random Forests, and XGBoost.
- Integrated GridSearchCV for hyperparameter tuning, optimizing predictive model performance and analysis.
- Created visualizations to interpret pandemic progression to assist in critical business and public health decisions.