Arif Khan

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EDUCATION

Arizona State University, Tempe, AZ — Dec 2025
Master of Science, Information Technology — 4.00 GPA
Relevant Coursework: Analyzing Big Data, Database management Systems, Data Visualization, Natural Language Processing

Rajiv Gandhi Proudyogiki Vishwavidyalaya, India — Aug 2017 – Jun 2021
Bachelor of Technology, Computer Science and Engineering — 3.36 GPA

TECHNICAL SKILLS

- **Languages: Python** (NumPy, Pandas, Scikit-learn, Plotly, Matplotlib, Seaborn, SciPy, NLTK), **SQL**
- **Visualization/Big Data Tools: Tableau**, **Power BI**, **Alteryx**, MS Excel (Analysis ToolPak), Postgres, **ETL Pipelines**, Kibana, Stat Tools, PyTorch, Scikit-learn, keras
- **Cloud Platform and Tools**: AWS Cloud Platform, Google Colab, Git, JIRA, Databricks, Postman, Word, Excel, PowerPoint
- **Statistical Analysis**: Hypothesis testing, Regression analysis, **Time series analysis**, Machine Learning models, Relational Database Design, Data Preprocessing, Data Interpretation and **Forecasting**, Data Warehousing, **predictive modeling**
- **Certifications:** AWS Cloud Practitioner, AWS Solution Architect, MERN, **Alteryx**, Neo4j Graph Data Science, **Tableau**
- **Other: Object-Oriented Design**, Data Structures, Algorithms, **Operating Systems**, Complexity Analysis

PROFESSIONAL EXPERIENCE

Data Analyst — Dec 2024 - Present
Arizona State University — Tempe, USA
- Designed and implemented data preparation workflows in Alteryx to clean, transform, and prepare datasets for analysis, exporting outputs to formats like Excel, Amazon Redshift, and ODBC for seamless integration with visualization tools
- Performed advanced data transformations using Pandas and NumPy in Jupyter Notebook, ensuring datasets met project requirements and delivered actionable insights aligned with organizational goals
- Developed over 30 dynamic Tableau or PowerBI dashboards and reports, leveraging prepared data to monitor key metrics, trends, and spend analysis, reducing workforce hours by 39% through automation and user-friendly designs
- Optimized query performance, improving execution speed by 15% for high-priority datasets, which enhanced overall reporting efficiency

Software Engineer — Sep 2022 – Dec 2023
Prodapt Solution Pvt Ltd — Bangalore, India
- Applied Tableau for advanced data visualization, improving application performance insights, optimizing workflows, and facilitating data-driven decision-making
- Designed and implemented robust ETL pipelines using Python and SQL, automating data extraction, transformation, and loading processes into Tableau, resulting in a 50% increase in dashboard efficiency and performance
- Utilized SQL for data wrangling of large, complex datasets, ensuring 98% data accuracy and consistency. Applied Tableau for optimizing workflows and enhancing application performance insights
- Employed TensorFlow to develop and integrate machine learning components, resulting in a 15% enhancement in predicting user errors
- Implemented statistical analysis techniques such as regression and clustering to derive actionable insights for business decision-making and forecast user behavior trends, contributing to strategic decision-making processes

Associate Software Engineer — Jul 2021 – Sep 2022
Prodapt Solution Pvt Ltd — Bangalore, India
- Deployed Python for data wrangling & statistical analysis, thereby enhancing web app development and user experience
- Enhanced operational efficiency by 17% through optimizing data collection and analytics, streamlining processes for over 120 datasets, and increasing business value by 25%
- Utilized decision trees and causal inference techniques in machine learning to analyze large, complex datasets, achieving a 95% accuracy rate in predictive modeling

PROJECT WORK

Superstore Dashboard (Try it here) — Mar 2024 – Apr 2024
- Designed and developed an interactive Tableau dashboard analyzing **9,994 records** from the Superstore dataset to visualize sales, profits, and shipping trends
- Identified **top-performing regions** contributing to over **45% of total sales** and segments driving **35% of overall profitability**
- Provided actionable recommendations that improved regional sales strategies, boosting projected revenue by **15%** and optimizing underperforming categories by **10%**
- Streamlined decision-making with real-time insights into **30+** metrics, halving reporting time