Rabbani Shaik

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PROFESSIONAL SUMMARY

Data Analyst with 4+ years of experience in creating interactive dashboards, automating reporting processes, and ensuring data accuracy. Possesses solid SQL skills and a strong foundation in statistical analysis, supporting data-driven business decisions. Proven ability to develop clear visualizations and analytical reports that simplify complex insights.

TECHNICAL SKILLS

- **Programming & Databases**: Python (Expert), SQL (Expert), R, JavaScript, HTML, CSS, MySQL, MongoDB
- **Advanced Analytics & Statistics**: QlikView, Looker, Power BI, Tableau, Regression Analysis, Bayesian Methods, ANOVA, Multivariate Statistics, Time Series Analysis, Hypothesis Testing, Data Analytics
- **Machine Learning & AI**: Scikit-learn, XGBoost, TensorFlow, Pandas, NumPy, Feature Engineering, Bayesian Optimization, Model Validation, Ensemble Methods
- **Project Management**: Certified Scrum Master (CSM), Agile/Scrum Methodologies, Sprint Planning, Backlog Management, Stakeholder Facilitation, Risk Management
- **Data Management & Governance**: Data Quality Management, ETL/ELT Processes, Data Cataloging, Metadata Management, Data Lineage, Master Data Management
- **Soft Skills & Leadership**: Adaptability, Change Management, Cross-functional Collaboration, Statistical Communication, Team Leadership, Strategic Thinking
- **Cloud & DevOps**: AWS (EC2, S3, Lambda, RDS), Git, Docker, Jupyter, CI/CD Pipelines, Infrastructure as Code, Cloud Security

EXPERIENCE

After5 (Clothing E-commerce) — Jan 2024 - Jun 2025
Data Analyst — *Dayton, OH, USA*

- Processed and analyzed 500K+ customer transactions across 50+ product categories using Python and SQL while ensuring GDPR and CCPA compliance through robust data governance frameworks.
- Created interactive Power BI dashboards tracking 15+ KPIs, including conversion rates, customer lifetime value, and inventory turnover, to support data-driven business decisions with built-in data quality monitoring and automated anomaly detection.
- Executed predictive models using XGBoost and Random Forest algorithms with Bayesian optimization for hyperparameter tuning, reducing supply chain stockouts by 22% and optimizing inventory turnover through advanced demand forecasting.
- Applied advanced statistical methods including multivariate regression analysis, ANOVA, and time series decomposition to identify key drivers of customer lifetime value and churn prediction.
- Adapted analytics strategies amidst market changes by orchestrating three major platform migrations (from Tableau to Looker and from a legacy CRM to Salesforce) while ensuring 99.5% data accuracy across all systems.
- Led cross-functional Scrum teams of 5 members in implementing enterprise data management practices, facilitating daily standups, sprint retrospectives, and establishing comprehensive data lineage documentation.
- Developed a comprehensive CRM analytics framework tracking customer acquisition costs, retention rates, and segmentation performance using advanced cohort analysis and RFM modeling.
- Presented monthly analytics insights to C-level executives using QlikView and Looker dashboards, visualizing supply chain KPIs and compliance metrics that drove strategic decision-making, increasing quarterly revenue by 12%.
- Implemented advanced statistical process control for supply chain optimization, reducing inventory holding costs by 18% through demand sensing and procurement analytics.
- Mentored 2 junior analysts on Bayesian statistical methods, regression diagnostics, and Agile project management methodologies, improving team productivity by 20%.

After5 (Clothing E-commerce) — Jan 2021 - Jul 2023
Junior Data Analyst (Part-time) — *Remote*

- Analyzed e-commerce sales data for 100K+ monthly transactions using logistic regression, chi-square testing, and correlation analysis while maintaining PCI DSS compliance.
- Developed interactive Looker and QlikView dashboards with embedded statistical models to visualize customer journey mapping and supply chain performance across 8 clothing categories, supporting analytical research.
- Employed multivariate statistical techniques, including principal component analysis and cluster analysis, for customer segmentation, contributing to a 10% improvement in targeted marketing ROI.
- Supported A/B testing initiatives by applying Bayesian statistical inference and power analysis to analyze 15+ experiments with proper randomization and stratification while ensuring customer privacy protection.
- Conducted supply chain analytics projects using linear programming and optimization algorithms, successfully reducing procurement costs by 12% through vendor performance analysis.
- Implemented advanced CRM analytics using cohort analysis, survival analysis, and propensity modeling to enhance customer retention strategies by 15%.

- Exercised Agile project management skills as Product Owner for 3 analytics initiatives, managing sprint backlogs and facilitating effective stakeholder communication.

AICTE (All India Council for Technical Education)   **Mar 2022 - May 2022**
RPA Development Intern   *Remote*
- Built and deployed 5+ workflow solutions using UiPath and Python with built-in data validation and audit trails, processing 1000+ documents daily while maintaining regulatory compliance.
- Demonstrated adaptability by quickly learning new RPA technologies and adapting to changing project requirements, reducing manual processing time by 30%.
- Established comprehensive error handling and data backup protocols, achieving a 95% success rate in process execution while ensuring data integrity and recoverability.

AICTE (All India Council for Technical Education)   **Oct 2021 - Dec 2021**
AWS Cloud Intern   *Remote*
- Designed scalable cloud infrastructure using AWS services (EC2, S3, Lambda, RDS) with comprehensive security configurations and compliance monitoring for applications serving 10K+ daily users.
- Implemented cloud governance policies and cost optimization strategies, reducing infrastructure costs by 25% while maintaining high availability and disaster recovery capabilities.
- Configured automated backup and data retention policies following industry best practices, ensuring 99.99% data availability and regulatory compliance.
- Established CI/CD pipelines with integrated security scanning and compliance checks, reducing deployment time from 2 hours to 15 minutes while maintaining a 99.5% deployment success rate.

EDUCATION

University of Dayton   **Aug 2023 - May 2025**
Master of Science, Computer Science
- **Coursework:** Data Visualization, AI, Machine Learning, Advanced Programming, Database Systems

PROJECTS

Healthcare Patient Readmission Prediction System   **Jan 2024 - Mar 2024**
- Developed HIPAA-compliant ML models predicting 30-day patient readmission risk using logistic regression, random forests, and Bayesian neural networks on 50K+ anonymized records, achieving 85% accuracy with comprehensive statistical validation
- Applied advanced feature selection techniques including LASSO regularization and recursive feature elimination, combined with Bayesian model averaging for robust ensemble predictions
- Created interactive QlikView dashboards with statistical process control charts and confidence intervals, visualizing risk factors and potential cost savings of $2M+ annually
- Conducted comprehensive statistical analysis using SHAP values, partial dependence plots, and Bayesian credible intervals for model interpretability and regulatory compliance documentation

Fashion Trend Analysis & Demand Forecasting   **May 2023 - Aug 2023**
- Analyzed 2+ years of fashion sales data using advanced time series methods (ARIMA, Prophet, seasonal decomposition) and multivariate regression analysis, achieving 15% improvement in demand prediction accuracy
- Integrated external data sources using supply chain analytics principles and CRM data fusion techniques, implementing Bayesian updating methods that reduced decision-making time by 40%
- Developed enterprise-grade Looker dashboard with automated statistical quality control and Monte Carlo simulation capabilities, adopted by 12+ supply chain and marketing team members
- Applied inventory optimization algorithms and statistical forecasting methods, implementing safety stock calculations using probabilistic demand models that reduced holding costs by 18%

CERTIFICATION

- Google Data Analytics Professional Certificate – Google Jun 2025
- QlikView Business Analyst Certification – QlikTech Jan 2025
- AWS Certified Developer - Associate – Amazon Web Services Jun 2022

CERTIFICATIONS ACHIEVEMENTS

- Outstanding Performance Award for Analytics Excellence – After5 E-commerce Dec 2024