

SK SABIHA

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PROFESSIONAL SUMMARY

- Results-driven Data Analyst with 4+ years of experience leveraging advanced analytics, data visualization, and machine learning to solve complex business challenges.
- Proficient in SQL, Python, Power BI, and Tableau, with a proven ability to design scalable data pipelines, extract actionable insights, and develop predictive models that drive strategic decision-making.
- Skilled in collaborating with cross-functional teams to translate business requirements into data-driven solutions, achieving measurable improvements in operational efficiency and customer satisfaction.
- Experienced in working with cloud platforms like AWS and Azure, streamlining ETL processes, and delivering interactive dashboards that enhance business intelligence capabilities.

EDUCATION:

Kent State University, USA | Master's in Computer Science (GPA 3.9/4)

December 2024

SKILLS:

Programming Languages: Python (Pandas, NumPy, Matplotlib, Seaborn), R, SQL, C, C++, Java, PowerShell

Databases: MySQL, PostgreSQL, Oracle SQL, Microsoft SQL Server

Data Analytics & Visualization: Power BI, Tableau, Excel (Advanced), DAX, Statistical Analysis, Data Wrangling, Data Cleaning, Data Mining, ETL, Descriptive & Predictive Analytics

Tools & Platforms: Power Automate, Power Apps, AWS, Azure, GitHub, Postman, Jupyter

Statistical Analysis & Machine Learning: Regression Analysis, Hypothesis Testing, Decision Trees, Random Forest, KNN, Feature Selection

Other Skills: REST API, Agile Methodology, Advanced Excel (Macros, VBA), MS Office

PROFESSIONAL EXPERIENCE:

Data Analyst | Kent State University, Ohio

September 2023 – December 2024

- Conducted data collection, cleaning, and analysis using SQL, Python, and Excel, ensuring data accuracy and reliability for critical decision-making.
- Designed and maintained interactive dashboards in Power BI and Tableau, visualizing trends and KPIs to support strategic goals.
- Applied statistical methods (regression analysis, hypothesis testing) to extract actionable insights from large datasets.
- Automated repetitive tasks using Python scripts, reducing manual reporting time by 30% and improving operational efficiency.
- Led ETL processes, integrating data from multiple sources into a central repository to streamline analysis workflows

Data Analyst | Accenture, India

August 2021 – August 2023

- Collaborated with stakeholders to define business requirements, translating them into technical solutions to enhance client satisfaction by 20%.
- Executed data wrangling and transformation tasks in Power BI and PostgreSQL to improve data quality and readiness for analysis.
- Developed advanced visualizations and dashboards in Power BI using DAX functions, increasing report usability and engagement by 15%.
- Conducted ad-hoc data analysis using SQL and Excel, delivering insights that optimized project performance and resource allocation.
- Streamlined reporting processes through Power Automate and Power Apps, reducing turnaround time by 70%.
- Utilized Azure DevOps for bug tracking and issue resolution, ensuring data integrity and compliance with project timelines.

Data Analyst Intern | Packet Prep, India

January 2021 – July 2021

- Designed and implemented a custom CRM system, enhancing client engagement by 30% and streamlining data management processes.
- Conducted data analysis to identify customer behavior trends, providing insights to improve marketing strategies.
- Created dynamic dashboards and reports to track key performance metrics, improving stakeholder visibility into project success.

- Collaborated with cross-functional teams to gather and document business requirements, ensuring alignment with user needs.
- Applied data modeling techniques to enhance reporting accuracy and optimize decision-making processes.

Machine Learning Intern | Octazen, India

May 2020 – August 2020

- Developed an anomaly-based Intrusion Detection System (IDS) to enhance network security and monitor for cyber threats.
- Increased threat detection rates by 25% and reduced false alarm rates by 30% through data analysis and pattern recognition.
- Implemented machine learning algorithms (Decision Tree, Random Forest, KNN), achieving 98.39% accuracy on the KDD'99 Dataset.
- Conducted statistical analysis to identify traffic patterns and anomalies, improving incident response strategies.
- Utilized canonical correlation analysis for optimal feature selection, streamlining data processing and enhancing predictive modeling efficiency.

PROJECTS:

Cricket Data Analytics Project | Web Scraping, Python, Pandas, Power BI

- Scraped and analyzed cricket match data using Python and Pandas, extracting insight on player performance and match statistics.
- Built interactive Power BI dashboard for visualizing team comparisons and performance trends, enhancing decision-making for cricket analyst.

Customer Churn Project | Telecom Industry | Python and Qlik | Financial Systems VBA Excel

- Evaluated machine learning algorithms and selected the model that has the highest efficiency to retain customers.
- Decreased churn rate by 15% by developing a Decision Tree model in R that improved the business profits.

Edu Navigator: Global University Selection Tool | Power BI | Python | Data Analytics

- Developed an interactive Power BI dashboard to assist student in selecting universities by analysing tuition fees, job prospects, and salary trends.
- Utilized Python for data preparation and creative visualizations on employment rates, top fields, and university rankings, enabling data-driven decision-making.

Network Intrusion Detection | Python & Machine Learning

- Designed and implemented an Intrusion Detection System (IDS) using Python-based machine learning algorithms (Random Forest, KNN, Decision Tree) to monitor network activities.
- Achieved industry-standard detection accuracy for malicious attacks, enhancing network security through advanced traffic analysis.

Best Calculated Price | E-commerce Price Comparison App | Django, Flask, Python

- Led the development of a web app using Django, Flask, and Speech Recognition to compare product prices across multiple e-commerce platforms, providing users with the best price and URLs.
- Ensured secure data handling and seamless user interactions, improving user experience and accuracy in price comparison.

CERTIFICATIONS:

- Power Platform Fundamentals by Microsoft
- Power BI Data Analyst Associate by Microsoft
- Machine Learning using Python by Dhaapps Edu Tech Pvt. Ltd