

## SK SABIHA NAZAREN

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### PROFESSIONAL SUMMARY

Skilled Data Professional with expertise in data analysis, engineering, and machine learning, leveraging SQL, Python, Power BI, and Tableau to extract actionable insights, optimize data pipelines, and drive data-driven decision-making.

Proven track record in implementing scalable data solutions and machine learning models on cloud platforms (AWS, Azure), enhancing data accuracy, efficiency, and client satisfaction by translating business needs into analytical solutions.

### EDUCATION:

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

December 2024

### SKILLS:

**Programming Languages:** Python, R, SQL, C, C++, Java, PowerShell

**Databases:** MySQL, PostgreSQL, Oracle, SQL

**Data Analytics & Visualization:** Power BI, Tableau, Excel, MATLAB, DAX, Statistical Analysis, Data Wrangling, Data Cleaning, Data Mining, ETL, Descriptive & Predictive Analytics

**Machine Learning:** Regression, Decision Trees, Random Forest, KNN, Clustering, Anomaly Detection, Feature Selection

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

**Web Technologies:** D3.js, JavaScript, Bootstrap, HTML, CSS, Django, Flask, PHP Laravel Framework

**Other Skills:** Object-Oriented Programming (OOP), Data Structures, REST API, Agile Methodology, MVC, MS Office (Excel)

### PROFESSIONAL EXPERIENCE:

#### Graduate Data Analyst | Kent State University, Ohio

January 2024 – Current

- Performed data collection, cleaning, and analysis using SQL, Python, and Excel to ensure data accuracy and reliability.
- Created interactive dashboards and reports in Power BI and Tableau to visualize trends and support decision-making.
- Applied statistical methods such as regression analysis and hypothesis testing to identify actionable insights from large datasets.
- Conducted ETL processes to integrate data from multiple sources into a central repository for analysis.
- Automated data workflows using Python scripts, reducing manual reporting time by 30%.

#### Data Analyst | Accenture, India

August 2021 – August 2023

- Collaborated with clients to extract requirements, translating them into actionable logic and visualizations, elevating satisfaction by 20%.
- Conducted data analysis using PostgreSQL and Microsoft Excel, executing ETL operations, enhancing data quality through Power BI transformations, driving efficiency.
- Engineered intricate visuals and designed Power BI dashboards with D3.js and DAX functions, enriching data presentation, empowering decision-making, and boosting user engagement by 15%.
- Managed PostgreSQL databases and APIs, executing 1000+ data queries, optimizing scripts, reducing dataset loading time by 80%.
- Streamlined report downloads using Power Automate flows and Power Apps, reducing time by 70%, heightening satisfaction and efficiency.
- Leveraged Azure DevOps for issue resolution, task management, bug tracking, and testing, amplifying team productivity by 20%.

#### Full Stack Developer Intern | Packet Prep, India

January 2021 – July 2021

- Designed and developed a CRM and CMS application, increasing customer engagement by 30%.
- Implemented CRM functionalities including website creation, blogging, campaign scheduling, subscriber management, and email distribution.
- Contributed to frontend UI/UX design, increasing client satisfaction by 25% with best design practices and user feedback.
- Utilized PHP Laravel for development AWS S3 for data storage, GitHub for version control, and Agile methodologies for development and testing, ensuring project adaptability and efficiency.

#### 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