SHEBEEB S

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SUMMARY

Machine Learning & Data Science Professional | SRE to ML Engineer Transition

Site Reliability Engineer with 5+ years of experience in the tech industry, actively transitioning into a Data Analytics & Machine Learning role. Demonstrated capability in applying analytics and product-focused methodologies over the past 1-2 years through hands-on projects and internal implementations. Proven ability to leverage SQL, Python, and statistical modeling to drive business insights, optimize workflows, and support strategic decision-making. Adept in anomaly detection, regression, clustering, and translating business challenges into data-driven solutions using visualization tools.

SKILLS

Programming & Tools: SQL, Python, C, C++, Java
Data Analysis & Visualization: Pandas, NumPy, Seaborn, Matplotlib, Excel, Power BI, Tableau (Basic),
Statistical & ML Methods: Hypothesis Testing, A/B Testing, Regression (Linear, Logistic), Clustering (K-Means), Z-score, Statistical Inference, Probability
Machine Learning & AI: XGBoost, Random Forest, Classification, Neural Networks (Basics), Deep Learning (Basics), PyTorch, NLP, LangChain
Data Science Concepts: EDA, Feature Engineering, Data Preprocessing, Data Cleaning, Hyperparameter Tuning,
Other: Data Storytelling, Requirements Gathering, Technical Documentation, Business Insight Communication
Cloud & DevOps: Streamlit, Git, Performance Monitoring

EXPERIENCE

Zoho Corp   **May 2019 - Present**
Site Reliability Engineer (SRE) | ML Engineer Transition
   As an SRE, ensuring 100% uptime was the core responsibility. To enhance system reliability, designed and deployed an **ML-driven Anomaly Detection System** to **monitor request response times** and preemptively detect **performance anomalies before critical failures**.

- Designed and deployed an **ML-based Anomaly Detection System** to monitor response times and improve system reliability.
- Built a predictive model using **XGBoos**t for time-series forecasting of web request trends.
- Applied **Z-score and statistical techniques** to detect anomalies and reduce incident response time by 50%.
- Collaborated with **cross-functional teams** to integrate AI-driven monitoring workflows into production systems.
- Identified **workflow improvements** and implemented scalable performance monitoring strategies.
- Participated in requirement gathering and solution design discussions with tech and business teams.

Atliq Technologies   **1 month virtual Internship**
Data Science & Machine Learning Intern (Virtual)

Applied Data Science & Machine Learning techniques in a real-world business environment within the Food & Beverage industry.
- Applied **ML and data analytics** in real-world F&B business scenarios.
- Performed **data cleaning, preprocessing, and feature engineering** to boost model accuracy.
- Deployed **predictive models** and contributed to **business-specific requirements** gathering.
- Collaborated with clients to deliver scalable ML solutions.

PORTFOLIO PROJECTS

Premium Insurance Prediction - Streamlit App Link | *Github Link*
- Developed a **ML-powered insurance premium prediction tool** using **XGBoost regression**.
- Built an interactive **Streamlit web application** for real-time premium estimation.
- **Optimized model performance** with hyperparameter tuning and feature engineering.

NBFC Loan Default Prediction - Streamlit App Link | *Github Link*
- Designed a **loan default prediction model** using **XGBoost** for **high accuracy classification**.
- Developed a **user-friendly Streamlit interface** for financial institutions to assess risk.
- Implemented **data preprocessing & feature selection** for handling missing values.

Other Data Analysis Projects
- Beverage Price Prediction - **Streamlit App Link** | *Github Link*
- New Content Summarizer(LLM model using Groq) - *Github Link*
- E-commerce Chatbot (LLM model using Groq) - *Github Link*
- Data Analysis for new Credit Card Launch - *Github Link*
- Hospitality Data Analysis of a Hotel chain - *Github Link*
- State-wise Hate Crimes in India Analysis against Schedule Caste- *Github Link*

EDUCATION

Bannari Amman Institute of Technology, Sathyamangalam	**2015 - 2019**
● Bachelor of Engineering in Computer Science and Engineering	GPA 8.7/10
Holy Cross Convent Matric Higher Secondary School, Devarshola	**2012 - 2015**
● Higher Secondary School Certificate (Grade 12/ HSC)	90%
● Secondary School Leaving Certificate (Grade 10/ SSLC)	97%

CERTIFICATIONS

- Google Data Analytics Professional Certificate (Coursera, 2024)
- Google Advanced Data Analytics Certificate   - (Coursera, 2024)