EHTESHAM SANA

asu.esana1@gmail.com • (602) 559-7002 • Tempe, AZ

PERSONAL STATEMENT

Holding a Bachelor's in Computer Engineering and dual Master's in Machine Learning (with thesis) and Business Analytics, with four research papers, this academic foundation is adept at merging AI with business intelligence for impactful data science solutions.

EDUCATION

W. P. Carey School of Business, Arizona State University (4/4 GPA**)** August 2023 – May 2024
Master of Business Analytics (MSBA): Big Data Analytics Tempe, Arizona

Zakir Husain College of Engineering and Technology, Aligarh Muslim University (9.4/10 CGPA**)** December 2021 – July 2023
Master of Technology (M.Tech), Computer Science & Engineering Uttar Pradesh, India

School of Engineering Sciences & Technology, Jamia Hamdard (7.1/10 CGPA) July 2015 – June 2019
Bachelor of Technology (B.Tech), Computer Science & Engineering New Delhi, India

SKILLS AND CERTIFICATIONS

- **Deep Learning** (IIT Madras Certified)**:** Proficient with **ANN, CNN, RNN**; experienced in **TensorFlow** and PyTorch.
- **Machine Learning** (Internshala Certified)**:** Proficient in **SVM, KNN, Gradient Boosting, Random Forests, and Logistic Regression**.
- **SQL** (Internshala Certified)**:** Advanced knowledge in queries, **joins, window functions, and data manipulation**.
- **NLP:** Techniques include **sentiment analysis, topic modeling, text summarization, BERT, and LDA**.
- **Python:** In-depth experience with **Pandas, NumPy, scikit-learn, Matplotlib.**
- **Data Visualization:** Proficient in creating interactive dashboards with **Tableau.**
- **Tools:** Skilled in **MS Excel**, Word, and **PowerPoint**.

PROFESSIONAL EXPERIENCES

Data Science Capstone Project, Dell Technologies January 2024 – May 2024

- Utilized **SQL**, **Python** within **Azure Databricks** to analyze Dell's inventory, identifying trends across thousands of SKUs.
- Intend to create an algorithm that ranks service parts by demand and inventory levels to optimize the efficiency of the Tech Refresh process.
- Targeting a 15% improvement in inventory turnover and a 20% reduction in stock outs to enhance warranty service delivery efficiency.

Machine Learning Teaching Assistant, Zakir Husain College of Engineering and Technology December 2021 – July 2023

- Tasked with creating assignments, leading tutorials, and offering student support in the Machine Learning course.
- Utilized real-world examples and interactive coding to demystify complex concepts, fostering enhanced student engagement.
- Elevated student exam scores by 20%, achieving a 95% positive feedback rate in course evaluations for Machine Learning.

Machine Learning Club Publicity Head, AMU ML Club March 2023 – July 2023

- Led "Introduction to Python and ML" workshop; directed 25-member team, achieving 95% attendee satisfaction via strategic planning.
- Orchestrated publicity campaign combining online, offline tactics, boosting club membership by 30% and event attendance by 50%.

PUBLICATIONS

Improving Multi-Document Summarization with GRU-BERT Network, REEDCON 2023

- Introduced a novel multi-document summarization approach combining BERT for contextual embeddings and GRU for sequence information, addressing the complexity of generating coherent summaries from multiple sources.
- Demonstrated superior performance on the DUC dataset, achieving notable improvements in summarization quality metrics over previous methods, indicating potential applications in news and document summarization.

Ensemble Approach for Suggestion Mining Using Deep Recurrent Convolutional Networks, ICDAM 2023

- Proposed **DRC_Net**, an innovative **ensemble model** for **suggestion mining**, leveraging **deep neural networks**, **recurrent neural networks**, and **convolutional neural networks** to extract insights from customer reviews.
- Achieved **outstanding accuracy and F1-scores on the SemEval-2019 dataset** for both in-domain and cross-domain validation, underscoring the model's versatility and effectiveness across different domains.

RELEVANT PROJECTS

Machine Learning Techniques For Diabetes Detection Using Iris And Conjunctival Images (Thesis) August 2022 – July 2023

- Developed an innovative diabetes detection model combining **machine learning** and image processing technologies; utilized **Python** with **TensorFlow** for analysis, processing over 2000 patient images to achieve a **96.78% accuracy** rate.
- Employed **OpenCV** for image handling and **matplotlib** for data visualization, enhancing model transparency and providing clear, quantifiable performance metrics.

Food Carrier A SQL-Driven Data Management Platform August 2018 – May 2019

- Engineered a web-based food ordering platform with an optimized SQL database, significantly enhancing data efficiency and scalability, showcasing advanced proficiency in **SQL** for backend development.
- Demonstrated expertise in **SQL** for complex data management tasks, including user and order processing, underpinning analytical capabilities relevant to a career in data science and analytics.

Predicting Success of Restaurant in Pennsylvania using Yelp Dataset January 2024 – March 2024

- Led team of 5, used topic modeling and sentiment analysis in EDA, created 50+ features, boosting ROC to 0.97.
- Insights from EDA, topic modeling, and sentiment analysis fueled feature creation, achieving 93.5% accuracy in restaurant success prediction.