**Danish Azam**

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Data Scientist with 3+ years of experience leveraging machine learning techniques to solve complex business problems across various domains (Healthcare, Manufacturing and Retail). Proficient in developing end-to-end analytical solutions and deploying scalable backend applications. Ability to analyze and interpret large amounts of data from a range of sources, making use of Exploratory data analysis, draw statistical analysis and inferences, come up with various Machine Learning and Deep Learning Algorithms.

**PROFESSIONAL EXPERIENCE**

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| **Tiger Analytics.** | Bengaluru |
| *Senior Analyst - Data Science* | Mar 2022 - Present |

* Led core data science initiatives for one of the world's largest pharmaceutical clients, focusing on applying supervised learning techniques for cancer stage prediction and optimizing drug commercialization strategies.
* Developed custom models and end-to-end applications to assist forecasters from 103 countries in leveraging market insights and historical data for revenue forecasting over the next 20 years.
* Worked with a Fortune 500 client to forecast sales of food, beverages, and personal care products across different demographics.
* Optimized the runtime of a dashboarding application for analyzing and visualizing essential insights by 80%, developing it from scratch using Flask.

**Tata Consultancy Services.**

*Data Analyst* Jan 2021 - Feb 2022

* During my tenure at TCS's Research and Innovation group, I specialized in applying Machine Learning techniques such as Linear Regression and Logistic Regression, primarily within the domain of Predictive Maintenance.
* It involved the development of an analytical workbench aimed at predicting machine breakdowns. This entailed working with large-scale live sensor data, with a staggering 86,400 records generated daily. I led the efforts to process and analyze this data effectively to derive actionable insights*.*
* Additionally, I played a pivotal role in developing and deploying backend API applications using Flask and managing databases in PostgreSQL. Leveraging Docker technology, I orchestrated the deployment process across multiple virtual machines on the Microsoft Azure platform, ensuring scalability, reliability, and efficiency in the application.

**EDUCATION**

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| **Birla Institute of Technology and Science** | Pilani |
| Master of Technology - Data Science and Engineering (MTech) | Aug 2021 - Sep 2023 |

* CGPA: 7.45/10
* Relevant Coursework: Machine Learning, Data Science, Statistics, Deep Learning, Natural Language Processing.

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| **Savitribai Phule Pune University,** Dr DY Patil College of Engineering | | Pune | |
| Bachelor of Engineering, Electronics and Telecommunication (BE) | | 2016 - 2020 |  |
| • | Cumulative GPA: 8.56/10 |  |  |
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**SKILLS**

* **Programming Languages:** Python (numpy, pandas, matplotlib, seaborn, plotly, sklearn, pytorch, tensorflow).
* **Data Science & Development:** Machine Learning, Deep Learning, NLP, Supervised Learning, Statistics, Data science pipeline (cleansing, wrangling, visualization, modeling, interpretation), SQL, PostgreSQL, Flask, API, Backend development.
* **Cloud & Miscellaneous Technologies:** Microsoft Azure, AWS Sage maker, AWS S3 bucket, Git, Docker, Linux.

**PROJECTS (POC) & CERTIFICATIONS**

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| **Full-Stack Question-Answering Model**   * Conducted a Proof of Concept (POC) for a pharmaceutical client, showcasing the effectiveness of a retrieval augmented system leveraging GPT-3.5 and LLM (Language Model) technologies. Implemented fine-tuned transformer models to enhance the interpretation of clinical queries related to radiology and various medical imaging techniques. * Integrated Weaviate vector database to optimize information retrieval, enabling efficient similarity searches. Successfully demonstrated the system's capabilities through a user-friendly web application interface, indicating its potential to streamline data analysis and decision-making processes in the pharmaceutical industry. |  |
| **Microsoft Certified: Azure AI Fundamentals**   * Link:[*certificate*](https://www.credly.com/badges/14f1e3c7-9566-41a4-b2d5-ba5f18e02604?source=linked_in_profile)   **Advanced NLP with Python for Machine Learning**   * Link:[*certificate*](https://www.linkedin.com/learning/certificates/1839fe899a0f2e4b21069bcda388a9618858f1cc22c808adb98eb7fe1312849a) |  |