FARRUKH NIZAM ARAIN

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PERSONAL STATEMENT

A skilled professional with a strong academic background and extensive, diverse experience in data analysis. As an international student on a Tier 4 student visa, studying for a MSc Data Science at Manchester Metropolitan University, currently seeking to work full time on a data science placement for a maximum of 12 months. The visa already covers the placement duration from June 2024 until September 2025, as it is an integral and assessed part of the course.

KEY PORTFOLIO PROJECTS

- **Auto Trader Group:** Applied machine learning techniques using Python and relevant functions to develop a regression model for predicting the selling price based on the characteristics of cars in the historical data.
- **Fresh-Eats Systems:** Developed Convolutional Neural Networks (CNNs) using Python for accurate classification of food images into categories, enhancing dietary analysis and meal planning applications.
- **Pizza Palace:** Conducted SQL-based time-series analysis to identify operational issues and provide actionable recommendations for business growth, profit optimisation, and future marketing strategies.

EDUCATION

Manchester Metropolitan University, Manchester, England (Sep 2023 – Sep 2025)
MSc Data Science with Sandwich Placement | In-Progress
Key modules: Principles of Data Science, Algorithms and Data Structures, Machine Learning Concepts, Computational Math and Statistics, Deep Learning, High Performance Computing and Big Data, Data Management and Governance.

- Proficiency in foundational data science principles and techniques, including data preprocessing, exploratory analysis, statistical inference, and visualisation.
- Expertise in designing and implementing algorithms, optimising for efficiency, and applying machine learning models for supervised and unsupervised learning tasks.
- Experience with deep learning architectures, big data handling, and data governance practices, highlighting scalable data processing and compliance with regulatory frameworks.

Bahria University, Karachi, Pakistan (Feb 2008 – Feb 2010)
MBA (Finance) | Equivalent to UK Upper Second Class (2:1)
Key modules: Business Communication, Strategic Management, Methods in Business Research, Statistical Inference, International Business Analysis, Business Quantitative Techniques.

- Developed strong communication and strategic decision-making abilities through coursework in Business Communication and Strategic Management, enhancing leadership and managerial effectiveness.
- Gained expertise in quantitative analysis and research methodologies, enabling data-driven decision-making and critical evaluation of business operations.
- Acquired a global perspective on business challenges and opportunities, with a focus on adapting strategies for diverse international markets.

Karachi Institute of Economics and Technology, Karachi, Pakistan (Feb 2002 – Jan 2008)
BSc Computer Science (Software Engineering) | Equivalent to UK Upper Second Class (2:1)
Key modules: Numerical Computing, Database Management System, Artificial Intelligence and Expert Systems, Data Structures, Elements of Statistics and Probability, Data Warehousing and Decision Support Systems.

- Advanced proficiency in numerical computing and algorithmic problem-solving, applying mathematical models and algorithms to address complex problems efficiently.
- Expertise in designing and managing database systems, including proficiency in data modelling, query optimisation, and ensuring data integrity.
- Knowledge of artificial intelligence (AI) techniques and machine learning algorithms, with practical experience in implementing AI solutions for automation and decision support.

DATA SCIENCE WORK EXPERIENCE

SecureBeans, Karachi, Pakistan (Feb 2010 – Sep 2023)
Data Analyst - (Full-time)

- Collaborated with stakeholders to understand business functions and challenges, leveraging SQL and Excel to acquire and evaluate datasets for strategic insights and operational improvements.
- Applied Python and Excel for data cleaning, analysis, and processing, identifying trends and patterns crucial for problem-solving and decision-making.
- Presented findings through Tableau, Power BI, and detailed reports in Microsoft Word and PowerPoint, advising on process enhancements, data governance strategies, and facilitating informed decision-making.
- Lead and managed team members to ensure their effective contributions to the projects, encouraging collaboration and maximising productivity.

WORK EXPERIENCE

Manchester Metropolitan University, Manchester, The United Kingdom (October 2023 – Present)
Postgraduate Student Ambassador - (Part-time)

- Representing the University at recruitment events and Open Days, assisting with registration, answering visitor inquiries, and providing support in lecture theatres and subject stands.
- Contributing to event setup and dismantling, ensuring smooth operation of exhibition areas.
- Serving as a campus tour guide, offering informative insights into university facilities and student life, and participating in virtual events, testimonials, blog writing, and vlog opportunities to enhance online presence.

New Century Education, Karachi, Pakistan (Sep 2006 – Feb 2008)
Web Developer - (Full-time)

- Spearheaded the development and ongoing enhancement of the company's website, integrating user-friendly features and ensuring up-to-date content, which boosted brand visibility and user engagement.
- Streamlined web development workflows, leading to increased innovation and operational efficiency, while providing robust technical support to optimize website performance.
- Cultivated a collaborative environment by mentoring junior staff, fostering skill development and team capability enhancement in web design and troubleshooting

PROFESSIONAL CERTIFICATIONS

- IBM Data Science Professional, IBM (Mar 2021)
- Tableau Prep Builder, Tableau (Mar 2021)
- Tableau Desktop I, II, III, Tableau (Feb 2021)
- Google Data Analytics Professional, Google (Mar 2022)
- Python for Everybody, UOM (Jan 2023)
- Google Advanced DA Professional, Google (in-progress)

ADDITIONAL SKILLS, ACTIVITIES, AND ACHIEVEMENTS:

- Currently the Treasurer/Financial Secretary Lead for the Artificial Intelligence and Data Science Society, with past recognition as a finalist in Autotrader's Data Science Hackathon at Manchester Metropolitan University.
- Served as the Treasurer of the Networking Society at Karachi Institute of Economics and Technology from 2004 to 2005, following annual elections.
- Hobbies include sketching, painting, listening to music, and watching TV.
- Fluent in English and Urdu; basic knowledge of German.
- Hold an international driving licence.

REFERENCES

It will be provided on request.