

Nima Salah Osman

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Machine Learning Data Scientist with expertise in developing and deploying advanced predictive models and deep learning solutions. My proficiency spans Python, including **Scikit-learn and TensorFlow**, for applying sophisticated ML and deep learning techniques. I am adept at statistical modelling and leveraging Python libraries to process and analyse raw data. Proficient with platforms like **Jupyter Notebook, Tableau, and MySQL**. My background as a Specialist Biomedical Scientist provides a robust foundation in data management and cross-functional collaboration. Committed to delivering excellent results in data-driven roles.

Skills

Python — (Pandas, Seaborn, Matplotlib, NumPy, Scikit-learn, TensorFlow) | **R programming language** | **MySQL** | **Tableau** |
Google Colab | **Github** | **VSCode** | **Jupyter Notebook** | **PySpark**

Professional Experience

- 08/2025 – Present **Data Analyst, NHSCFA**
United Kingdom
 - Deliver comprehensive analytical services to support the prevention, detection, and investigation of economic crime across the NHS.
 - Establishing reusable pipelines and reports to support the transition from proof of concept to BAU.
 - Utilise SQL, Python, and PySpark to manage, cleanse, and aggregate complex and large national datasets for actionable fraud intelligence, contributing towards recovering £495M.
 - Apply advanced statistical techniques to examine anomalies and patterns indicative of fraudulent activity.
 - Collaborate with Data Scientists and the response team to define methodologies and produce reports.
 - Ensuring data processes strictly adhere to GDPR, the Data Protection Act 2017, and the Freedom of Information Act.
 - Conduct regular data quality audits and develop new ETL methodologies to improve efficiency.
- 09/2017 – 02/2024 **Specialist Biomedical Scientist (Progressed from MLA in 2020), Queen's Hospital**
United Kingdom
 - Designed and implemented a Tableau dashboard, integrated with the lab's LIMS, to track specimen workflow and pinpoint areas of delay.
 - Facilitated targeted interventions to expedite urgent samples, resulting in a 66% reduction in the lab's backlog and decreased overall turnaround time.
 - Worked in multidisciplinary settings, communicating complex laboratory data and findings to clinical teams to inform diagnosis and treatment plans.
 - Contributed to the interpretation of data for patient management, demonstrating strong analytical and collaborative skills.
- 05/2016 – 07/2016 **Research Intern, University of Florence**
Italy
 - Conducted research and meticulously collected data for a scientific project.
 - Analysed and interpreted research findings, strengthening statistical analysis skills.
 - Thrived in a diverse international team, improving communication and teamwork abilities.

Education

- 04/2023 – present **Master of Science: Data Science, University of Essex**
United Kingdom
 - **Developed and deployed advanced Machine Learning models**, including a regression model using Python and Scikit-learn to predict the likelihood of clients opening long-term deposit accounts.
 - **Engineered Deep Learning solutions by building a Convolutional Neural Network (CNN) model** with Python and TensorFlow for image classification on the CIFAR-10 dataset, utilising Matplotlib and Seaborn for visualisation.
 - **Orchestrated end-to-end data preparation and statistical modelling**, leveraging Python libraries (Pandas, NumPy) for robust data handling, and R programming to extract meaningful insights from large datasets.
 - **Designed and implemented robust MySQL data management systems** for efficient data storage and retrieval, integrating with Python-based workflows in Jupyter Notebook and Google Colab.
- 09/2014 – 05/2017 **Bachelor of Science (Hons): Biomedical Science, University of Portsmouth**
United Kingdom
 - Extensive training in statistical analysis, laboratory data management, and research.

Projects

- Early Warning Model**, Utilised CoxPH model to predict systemic risk in NHS cancer services using large-scale operational data. ☐
- CCN Model**, Build a CNN model for image classification of the CIFAR-10 dataset. ☐
- Dashboard**, Displays real-time, practical snapshot of the laboratory's status using Tableau. ☐
- Airbnb**, Utilised machine learning techniques to analyse the Airbnb NYC dataset and predict future growth trends in Airbnb listings. ☐
- Bank Telemarketing Campaign**, Build a predictive model for identifying clients likely to open long-term deposit accounts. ☐