Nima Salah Osman

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Data Scientist with strong skills in data analysis, statistical modelling, and machine learning. Proficient in using platforms such as Tableau, MySQL, and Jupyter Notebook. Demonstrated ability to process and analyse raw data using Python libraries and apply machine learning and deep learning techniques. Background in data management, laboratory operations, and cross-functional collaboration from experience as a Specialist Biomedical Scientist. Driven and 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**

Professional Experience

03/2024 – 03/2025
Remote

Data Science Consultant, *Affordance LLC*
- Utilised Python (Scikit-learn) to develop a regression model for forecasting property values, incorporating feature engineering and evaluation with metrics like Mean Absolute Error, which led to a 10% improvement in pricing accuracy.
- Developed a predictive model using Python to identify areas with high potential for property value growth by analysing factors such as population growth, local job market trends, and transportation development, which informed investment strategy.
- Designed interactive Tableau dashboards to visualise project outcomes and key performance indicators, providing actionable insights that informed strategic decisions.
- Leveraged Python libraries (Pandas, NumPy) for data manipulation and analysis across projects.

09/2017 – 02/2024
United Kingdom

Specialist Biomedical Scientist (Progressed from MLA in 2020), *Queen's Hospital*
- Designed and implemented a Tableau dashboard, integrated with the lab's LIMS, to track specimen workflow and pinpoint areas of delay, facilitating targeted interventions to expedite urgent samples and decrease overall turnaround time, leading to a 66% reduction in the lab's backlog.
- Worked in multidisciplinary settings, communicating complex laboratory data and findings to clinical teams to inform diagnosis and treatment plans, and contributing to the interpretation of data for patient management.

05/2016 – 07/2016
Italy

Research Intern, *University of Florence*
- 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
United Kingdom

Master of Science: Data Science, *University of Essex*
- Performed statistical analysis using R programming to analyse datasets from the 'Transport survey,' enabling the extraction of meaningful insights from survey answers to provide recommendations for improved passenger transportation, while also utilising Python libraries within Jupyter Notebook for data processing and preparation.
- Developed and implemented MySQL data management systems for school databases, focusing on efficient data storage and retrieval, using Jupyter Notebook and Python libraries (Pandas) for data handling.
- Developed a regression model for the 'bank telemarketing campaign' using Python and Scikit-learn within Google Colab to predict the likelihood of clients opening long-term deposit accounts, leveraging Pandas and NumPy for data manipulation.
- Developed a Convolutional Neural Network (CNN) model using Python and TensorFlow within Jupyter Notebook to classify images within the CIFAR-10 dataset, utilising Matplotlib and Seaborn for visualisation.

09/2014 – 05/2017
United Kingdom

Bachelor of Science (Hons): Biomedical Science, *University of Portsmouth*
- Extensive training in statistical analysis, laboratory data management, and research.

Certificates

- Google Data Analytics: Professional Certificate
- Coursera: Python programming

Projects

Dashboard, *Displays real-time, practical snapshot of the laboratory's status using Tableau*

Bank Telemarking Campaign, *Build a predictive model for identifying clients likely to open long-term deposit accounts*

CCN Model, *Build a CNN model for image classification of the CIFAR-10 dataset*

Airbnb, *Utilised machine learning techniques to analyse the Airbnb NYC dataset and predict future growth trends in Airbnb listings.*