

# Nicolas Rosal

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## Data Scientist

- Data analyst with 3+ years of experience of using data to improve processes and customer experience - increased data accessibility by 30% and reduced dashboard time-to-creation by 50%.
- Now seeking to test and apply machine learning solutions to real-world problems.
- Strong technical background combined with well development stakeholder management, project management, communication, and people skills.
- Life-long learner; always keen to update knowledge with the latest technologies to support current and future projects.

## WORK EXPERIENCE

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### **Data Analyst and Faculty** • London, England • Full-time

#### **The Manchester Academy** • Feb 2022 - Present

- Improved accessibility to application and demographic information by executing an automated data migration script from Greenhouse to Firestore, increasing the amount of available user data from 26 to 1500.
- Implemented new dynamic form builder, streamlining data collection and improving scholar progress data accessibility by 30% while saving 2 hours per week.
- Reduced data dashboard creation and update time by 50% for weekly scholar progress reports to partners by creating an automatic workflow using Google and Tableau.
- Created a process map that tracked internal data collection, storage, and usage activities to guide planning sessions on how to fix inconsistencies and dependencies in the process and improve overall data accessibility.
- Planned and delivered three programmes on computational thinking and data analytics for 20 scholars.

### **Software Engineer Trainee** • London, England • Full-time

#### **Academy** • Oct 2021 - Feb 2022

- Worked on a full-stack social sharing app for scholars at the Academy to share educational resources.
- Worked on a full-stack paste-bin app for people to allow scholars to share their code snippets online.
- Learnt PostgreSQL, Express JS, Node JS, React JS, Next JS, JavaScript, TypeScript, Jest, Cypress, HTML, and CSS.

### **Associate Data Analyst** • London, England • Part-time

#### **First Aid For Life** • Aug 2020 - Oct 2021

- Reduced monthly advertisement expenditure by 70% without affecting conversion metrics.
- Increased site health score from 17% to 80% and reduced the number of page errors from 6,741 to 1,340.

## EDUCATION

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### **Management Science B.Sc.**

University College London • London, England • GPA: First Class Honours • Sep 2018 - Jun 2021

- Used NLP techniques and k-means clustering to identify the characteristics of the most successful courses in Coursera.

- Created a stacking ensemble CDT model capable of measuring the level of risk of lung cancer in patients with a log loss of  $9.99 \times 10^{-16}$ .
- Presented Dissertation titled 'How Can Machine Learning-Based Predictive Maintenance Decrease Maintenance Expenses and Reduce Aircraft Downtime for American Airlines?' (Grade: 82).

## International Foundation in Economics & Mathematics

King's College London • London, England • GPA: First Class Honours • Sep 2017 – Jul 2018

## CERTIFICATIONS

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### Data Product Manager Nanodegree

Udacity • Jul 2023 – Present

### Software Engineer E1

The Manchester Academy • Oct 2021 – Present

### Machine Learning Engineer Nanodegree

Udacity • Oct 2020 – Present

### Deep Learning Specialisation

DeepLearning.AI • Aug 2020 – Present

### Machine Learning Scientist

DataCamp • Jun 2020 – Present

## PROJECTS

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### Turbofan Engine Failure Prediction

Built a stacking model with an XGBoost estimator to predict turbofan engine failure with an accuracy of 99.9% and 0% no-fault-found rate. Presented at INFORMS 2021 Annual Meeting and Production and Operations Management Society (POMS) 2021 Annual Meeting.

### Candidate Success

Identified steps in the Academy selection process capable of predicting candidates success with an R square of 53%.

### London Energy Forecast

Built an LSTM neural network to forecast household energy consumption in London with a MAE of 0.43439 KWH.

## SKILLS & INTERESTS

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**Professional Skills:** Data Analysis, Data Collection, Data Dashboard, Data Literacy, Express.js, Git, GitHub, JavaScript, Matplotlib, Next.js, Node.js, NumPy, pandas, PostgreSQL, PowerBI, Project Development, ReactJS, Scikit-Learn, SQL, Tableau, Tensorflow, TypeScript, Version Control

**Languages:** English, Spanish

**Interests and Other Information:** Training for two half-Ironman triathlons in the second half of 2024., Picked up DJing – preference for Latin and Tribal house music., Sport and indoor climber for 3+ years.