

# DANIEL WOOSTER

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## EDUCATION

University of Nottingham – BSc Computer Science with AI, year 2

2024–2028

## SKILLS

Languages: Python (advanced) | Java | C | JavaScript | HTML/CSS

Data Science & ML: Matplotlib | Scikit-learn | NumPy | TensorFlow | seaborn

Web Development: React | Flask | REST APIs

Tools/Technologies: Git | Figma | SQLite | UNIX/Linux

## WORK EXPERIENCE

Footprints cec

Systems engineer intern | June 2025 – August 2025

- Developed a K-Means clustering model for donor segmentation, with data cleaning, feature engineering and strategic visualisation of results for actionable insights.
- implemented cloud-based solutions that included migrating the CRM from Salesforce to a cost-effective alternative, configuring Google Workspace/Meta Ads, and setting up a new e-commerce and event platform, resulting in over £300 in annual savings.
- Led a comprehensive data migration plan for the integration a legacy database into a new Azure cloud environment, defining schemas and ETL processes to ensure data integrity and system scalability.

AWE insight day

Invitee | Feb 2025 – Feb 2025

- Collaborated in group challenges, including Mensa-style questions, placing 2<sup>nd</sup> out of 8 teams.

## PROJECTS

K-means donor segmentation model

Python | pandas, NumPy, matplotlib, sklearn, seaborn

- Engineered an unsupervised K-means clustering model on a donor dataset to create 4 distinct segments, increasing targeting efficiency for fundraising and donor retention.
- Delivered actionable business insights through comprehensive data visualisations, facilitating data-driven decision-making for the nonprofit. ([View here](#))

Stats for Spotify

Flask | React

- Developed a full-stack application using the Spotify Web API, employing OAuth 2.0 for secure authentication and personalised data retrieval.
- Created a dynamic React frontend component featuring a stateful, interactive UI that allows users to filter their top data by time range.
- Managed collaboratively using GitHub for version control, code review and feature branching. ([View here](#))

LR/RFR models for Wine quality analysis

Python | pandas, NumPy, matplotlib, sklearn

- Achieved 98.5% for my fundamentals of AI coursework (top 0.1%)
- pre-processed data, trained the model and showed the data visualisation – scoring 100% in all aspects of the machine model code.
- Evaluated the usefulness of each model using  $R^2$ , MSE and RMSE using the sklearn library.

## AWARDS

Nottingham Consultancy Challenge

Group lead | March 2025 – April 2025

- Led team of 5 to develop marketing & research analysis addressing a nonprofits fundraising campaign
- Built a linear regression ML model to predict donations for the charity (£25,000 predicted)
- Presented findings with clients, securing internship with them

## REFERENCES

Claire Clarkson | Head of Communications | Footprints cec | [claire.clarkson@footprintscec.org](mailto:claire.clarkson@footprintscec.org)

Alexander Turner | Assistant Prof | University of Nottingham | [Alexander.Turner@nottingham.ac.uk](mailto:Alexander.Turner@nottingham.ac.uk)