

PAUL KENNEDY

W1G 6LD, London – +447463436174 – paul.pk.kennedy12@gmail.com

PROFILE

As a highly motivated and accomplished Data Scientist, I bring a strong academic background and valuable industry experience in the healthcare sector. With excellent interpersonal skills, I thrive in group learning and working environments. I have a proven track record of balancing my career with other pursuits, including the arts, sports, and community involvement. My acute analytical skills, creativity, and expertise in working with various data structures enable me to provide innovative solutions to complex problems. I am excited to leverage my skills and experience to make a meaningful impact in the world of work.

EDUCATION

University of Bath *MSc Data Science* **2021 to 2022**

- Final grade: **Distinction** with notable results in Software Technologies for Data Science, Machine Learning 1 & 2 and Applied Data Science.

University College Cork *BSc Mathematical Sciences* **2017 to 2021**

- Final grade: **First Class Honours** with notable results in C/C++ Programming with applications, Linear Algebra, Regression Analysis and Statistical Methods for Machine Learning.

Presentation Brothers College **2011 to 2017**

- Irish Leaving Certificate: **577 Points** (Ranked in the **Top 2%** Nationally) including H1's in Mathematics & Physics and H2's in Irish, Applied Mathematics, German, English & Music.

EXPERIENCE

Junior Data Scientist **Health Education England** **Sept 2022 to Present**

- Collaborate with external organizations and HEE colleagues to provide comprehensive intelligence and information analysis for national workforce planning to ensure the NHS is adequately staffed in the future.
- Produce insightful modelling, analysis, reports, and dashboards using SQL, Python, Tableau, Excel, and Github for version control.

Customer Care Manager **SONS** **Mar 2020 to Sept 2022**

- Delivered a comprehensive service to enquiring customers and performed analysis of customer cancellation data using Python and Excel.
- Helped Sons to lower customer churn by 3% per month saving them thousands of pounds in revenue.

Team Leader **Compass Group** **June 2017 to Mar 2020**

- Managed staff and responded to any customer enquiries or complaints in catering units on match days at two of Ireland's biggest stadiums; Páirc uí Chaoimh (Cork) and The Aviva Stadium (Dublin).

Campus Ambassador **Irish Student Entrepreneurship Forum** **Sept 2018 to Aug 2019**

- Marketed ISEF's multistage competition to all UCC students utilising social media, university platforms and print media marketing and collaborated with students from other Universities to arrange events held in Dublin.

TECH STACK

- | | | |
|-----------|----------------|---------------|
| • Python | • Pandas | • Ggplot2 |
| • SQL | • Numpy | • Caret |
| • R | • Matplotlib | • Git |
| • Tableau | • SciKit-Learn | • + many more |

PROJECTS

Addressing Health Inequalities: Redistribution

2023

- The aim of this project was to distribute doctor training places around England using guided distributions derived from datasets such as inpatient and outpatient statistics to address the bias towards areas such as London.
- I wrote python scripts to automate pre-processing the datasets, calculating the guided distributions, and distributing the posts at the level of Clinical Commissioning Group/region and medical specialty.

ICS Supply and Demand Tool

2023

- This project involved forecasting potential gaps between workforce supply and demand in each of the 42 Integrated Care Systems (ICSs) in England for each medical and non-medical profession, with projections up to 2037.
- I used python and Excel to make the workforce demand projections, considering ONS population data and Hospital Episode Statistics (HES) data.

Customer Churn Prediction: A Machine Learning Approach

2022

- Awarded a **distinction (72%)** for my **MSc Data Science Dissertation**.
- Using data that I extracted from a Men's Health E-commerce subscription-based business, I built machine learning models to predict customers who are likely to cancel their subscription.
- I employed advanced feature selection methods to optimize the models and compared the performance of Logistic Regression, Random Forest, Adaptive Boosting, and Support Vector Machine.
- Successfully achieved a Precision score of 92% with the final model.

Traffic Capture Application: Backend

2021

- Awarded a **distinction (95%)** for this project for the Software Technologies for Data Science course in my **MSc Data Science**.
- In this project I maintained a SQL database that held all the required data, and I extended the given python code to ensure full application functionality.

QUALIFICATIONS & EXTRA-CURRICULAR

- | | |
|---|--|
| • Grade 8 Cellist & Violinist | • Senior Hurler with Brother Pearse's Hurling Club |
| • Gaisce Presidents Silver and Bronze Medal | • U21 Cork County Gaelic Football Winner |
| • Previous member of the UCC Maths Society | • Munster Schools Rugby Senior Cup Winner |
| • Previous member of the Cork Youth Orchestra | • Member of Cork Golf Club |
| • Life Saving Silver Medal | • St. Luke's Nursing Home Cork Volunteer |
| • First aid training | • Caddy at World Invitational Father & Son, Waterville |

REFERENCES

Head of Statistics UCC – Michael Cronin

- Mobile: +353214205825
- Email: m.cronin@ucc.ie

Co-Founder of Sons – Dr. Adrian Gilbane

- Mobile: +447926965532
- Email: adrian@careforsons.com