

Ben Wills

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Education

University of Bristol	2019-2022	Mathematics BSc. Modules studied: Statistics (85%), Mathematical Programming (86%), Probability (87%), Financial Risk Management, Optimisation Average 82% overall, predicted 1 st .
Ashlyns school	2016-2018	A-Levels – Maths (A*), Further Maths (A), physics (A)
Ashlyns school	2013-2016	9 GCSE's grades A* to B, including an 8 in Maths.

Personal Profile:

A confident, positive, enthusiastic graduate with experience of team collaboration, presenting to a large audience, working in a fast-paced atmosphere and a wish to demonstrate learned skills in the workplace. During university I developed a passion for statistics and analysing data, thus during the pandemic I saw an opportunity to develop new skills; I began to learn SQL and improve my python skills by undertaking various projects, such as a sudoku board generator and a linear regression unsupervised machine learning model.

Currently looking for challenging graduate roles as a data scientist.

Key Skills

Project Management:

- Gained experience whilst in groups in modules such as statistics and mathematical programming. I continue to apply learned techniques in every new group.
- Working alongside graduates and professionals in computing labs gave me valuable insights into how to plan and manage a project, using facilities such as GitHub.
- Led my group in creating a Python program that simulated the motion of the planets in our solar system, which involved splitting the complex problem into smaller tasks, allocating these to each member, using a Gantt chart to keep track of progress. Resulting in a 90% mark in this project.

Technical Skills:

- Coding experience in various programming languages such as Python, R and SQL, as well as Python packages such as Pandas, NumPy and SciPy.
- Machine learning experience - during lockdown I created a simple unsupervised machine learning algorithm that plotted a linear regression.
- Experienced in Microsoft office – Word, Excel, Outlook, PowerPoint
- Statistical analysis skills, which I developed alongside using R to analyse and clean large data sets.
- Strong working understanding of statistical and probabilistic models and algorithms – such as supervised and unsupervised learning algorithms, linear regression models and maximum likelihood estimation

Interpersonal:

- Excellent presentation skills – with the ability to clearly and concisely articulate ideas to a wide variety of observers. Seen by my peers when presenting a machine learning project, I completed in my first year at university, for which I gained a mark of 85% in presentation.
- Strong teamwork skills – enthusiasm, communication and listening skills which allow me to communicate seamlessly with my partners

- Eager to learn new techniques and methodologies
- Tutored for 3 years, developing my explanation skills to make them clear and concise

Problem Solving:

- adept at thinking on my feet, keeping composure whilst breaking down complex problems into manageable tasks
- During university my problem-solving skills are always pushed to their limits and are developing by solving new and unseen problems regularly.
- Analytical thinker – always thinking of multiple approaches to any problem
- Ability to quickly adapt to new situations and environments quickly whilst learning

Employment History

A-Level Tutor – Self-employed: 2020 - Present:

- Taught 4 A – Level students
- Scheduled and taught over 30 lessons

Transferrable skills:

- Communicating new ideas to a wide range of recipients
- Patience when communicating with others
- Planning clear and concise presentations

GCSE Tutor – Hertfordshire County Council/Ashlyns school: 2018-2019:

- Whilst in sixth form I was approached by the head of mathematics and asked to tutor GCSE students.
- Scheduled and taught over 60 lessons
- Taught 3 classes of 5 GCSE students

Transferrable skills:

- Leading a team – keeping the rooms attention on me, dividing my time between all members
- Thoroughness in assuring every student understood any topic
- Keeping calm under pressure whilst keeping others around me calm

“Maths café” leader for second years: 2021-present:

- I was approached by the university of Bristol to teach a weekly maths café to second years.

Transferrable skills:

- Ability to explain complex topics clearly and concisely to a group or individual.

Responsibilities

Sixth form treasurer:

- Raised over £2500 by hosting and organising school events
- Responsible for storing and spending the money on the student body
- Creatively thinking of new ways to raise money

Interests

- Avid cyclist – I cycle almost every day; I find that it helps me to think deeper and see things from a new perspective when I am stuck on a problem.
- Tennis player – I enjoy the healthy competition and meeting new people.
- Reader – as a naturally curious person I love to expand my knowledge on a wide variety of subjects, from physics to Oscar Wilde. My recent favourite read being Dune.