CONNOR BROOK

www.connorData.Science · 07871 510239

connorbrook@gmail.com · www.linkedin.com/in/connor-brook

I am an adaptable, hardworking, and social individual currently in my second year of my degree, pursuing a placement to establish my career as either a **Data Scientist** or **ML Engineer**.

SEP 2020 – JUNE 2024 (PLANNED)

BSC (HONS) DATA SCIENCE AND ANALYTICS, University of Portsmouth

1st year average, 71%

- Used R and ggplot2 to perform EDA on a Swedish Car Insurance Dataset, developing regression models to predict insurance costs based on factors such as: *Type of Vehicle, Age, Location.*
- Modelled and implemented a SmartPlug dashboard/system in Java, reinforcing my understanding of Object-Oriented programming paradigms in the process.
- Studied complex database concepts such as generalisation/inheritance, complex SQL queries, PostgreSQL.

2nd year (current)

- Currently learning Machine Learning algorithms for classification and regression e.g. KNearestNeighbours, Support Vector Machines, Random Forest, Decision Trees, clustering, etc.

SEP 2018 – JUNE 2020

A-Level, Roding Valley Sixth Form

- Maths & Further Maths - essential for Data Science (e.g. Statistics, Calculus, Linear Algebra)
- Computer Science - provides a strong foundation in programming/software engineering

SEP 2017 – JUNE 2018

GCSE, Debden Park High School - 8 GCSEs A*-B including Maths & English

EXPERIENCE

AUG 2018 – MAR 2020

Sales Assistant, TJ Morris (Home Bargains)

- Delivered exceptional customer service, building rapport with the local community
- Able to maintain a level head in extremely stressful and fast paced situations, namely Christmas time
- Developed my communication skills, learning how to collaborate with colleagues in an intense environment
- Highly adaptable and dynamic as I volunteered to cover roles outside of my assigned duties from cleaning to managerial shifts

SEP 2017 – JUNE 2018

Python Mentor (Volunteer), Debden Park High School

- Taught concepts such as conditionals, iteration, Object-Oriented programming, lambda functions
- Accelerated the development of my interpersonal and teaching skills, learning how to communicate technical concepts to a wide variety of students with different learning needs

PROJECTS

All of my projects are available on my **GitHub** profile at: https://github.com/Viibrant

TextbookScanningQuizApp - 2nd year Software project
- Web app that allows the user to input text data (plaintext, PDF, etc) and to receive a summary of the same text and questions that have been generated using Natural Language Processing
- Built using Questgen, NLTK, Flask, and ReactJS
- Responsible for the project as Team Leader by ensuring that everyone follows the same conventions, writes Pythonic code, and resolving any queries that my teammates may have
- Cultivated my collaboration skills, taking advantage of git through the application of concepts such as branching, merging, and rebasing

Automated Checkout - A Level Coursework
- Utilises YOLOv3 real-time object detection algorithm with ImageAI to detect products that is being held in front of a webcam, querying a JSON file and calculating the total cost
- Video data is captured via OpenCV, learning how to handle generators in order to display the video data in the web browser

are-we-together
- Command line utility that parses two iCalendar (.ics) files, in this case university timetables, to work out which students in my cohort shares lectures
- Applied pandas dataframe operations such as grouping, concatenation, and aggregation
- Familiarised myself with Python's argparse, used to parse flags passed to the program on runtime

covid-dashboard - Accessible at covid.connordata.science
- A web app that uses the NHS API to retrieve the latest COVID-19 statistics to be graphed using Plotly, Dash, Pandas, and GeoPandas
- Developed my story-telling skills, writing interactive graphs that are easy to interpret

connorData.Science
- Website I wrote to host my CV & to serve my projects via WSGI application dispatching
- Applied system administration concepts such as registering for a TLD, and maintaining DNS records
- Used GitHub Webhooks to have my web server (hosted by PythonAnywhere) automatically pull from the repository any time a new push is detected

OVERVIEW OF RELEVANT SKILLS

Data Science - R, ggplot, Matplotlib, Jupyter, Pandas, Numpy, Keras, Tensorflow, scikit-learn, OpenCV, Anaconda, Bokeh, Plotly, PostgreSQL

General - Flask, Bootstrap, Flutter, Javascript, C#, Java, dotenv, JQuery, Requests, beautifulsoup, ReactJS, NodeJS

Miscellaneous - git, Linux, Bash, VSCode, Data Structures & Algorithms, OOP

ACTIVITIES & INTERESTS

In my spare time I'm usually building projects to stay ahead of the curve and to ensure my knowledge is up to date. Martial arts are another passion of mine, building my self-discipline and fitness.

REFERENCES AVAILABLE UPON REQUEST