Taj Patel

Contact Information

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Education

Ai Core - Machine Learning and Data Engineering September 2021 - Present

- Software engineering (Git & GitHub, advanced Python, algorithms & data structures)
- Data engineering (SQL, data lakes, data warehousing, web scraping)
- Data science (Data cleaning, preprocessing & visualisation, A/B testing, feature engineering, statistical modelling, model selection and implementation)
- Cloud Engineering (cloud computing, designing and building APIs, Docker, Apache Airflow, AWS Serverless Stack)

Imperial College London - MSc Applied Mathematics October 2020 - Present

University of Warwick- BsC Mathematics with Statistics October 2017 - June 2020

- 77% - First Class Honours
- Ranked in top 10 in 1^{st} & 2^{nd} Year

Kingsbury High Sixth Form - A-Levels September 2014 -2016

- Further Mathematics(A*),Mathematics(A*),Chemistry(A),Biology(C)

Professional Experience

STOR-i (Statistics and Operational Research) - Internship July 2020 - September 2020

- 8 Week programme which revolved around academic research.
- Given an unfamiliar mathematical topic (Mine was Graphs & Networks), I initially had to familiarise myself with the basic theory.
- Progressed onto reading academic papers surrounding the topic, to then come up with my own research project for the summer.
- Attempted to justify my mathematical claim practically using Python; which involved: writing functions, using classes and creating plots.
- At the end I created a powerpoint to present my research to the academics within the department.
- Research Presentation: STOR-i/Intern/TajPatelPresentation.pdf
- Aside from the project, also had "Problem Solving Days". These consisted of interns in groups, attempting to solve a problem proposed by an industrial partner of STOR-i. The problems required data handling and coding skills; we'd present our approach at the end of the day.

Projects

Digit Classification

- Built a neural network for classifying hand written digits, trained using 5000 images from MNIST dataset and achieved a 96% accuracy on the training set.
- Neural network was coded from scratch, demonstrating knowledge of underlying theory.

Links (Hyperlink)

- Linkedin
- GitHub
- Coursera Machine Learning Certificate

Skills

- Proficient with: Python, Matlab, LaTeX
- Familiar with: SQL, Git, ML Algorithms (NN, SVM's, Logistic and Linear Regression).

References

Available upon request.