

Taj Patel

Contact Information

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Education

Ai Core - Machine Learning and Data Engineering September 2021 - March 2022

- Software engineering (Git & GitHub, Advanced Python - D.S.A)
- Data engineering (SQL, Data Lakes, Data Warehousing, Web-scraping)
- Data Science:
 - Data Cleaning, Preprocessing & Visualisation
 - A/B testing, Feature Engineering
 - Statistical Modelling: Model Selection & Model Implementation
- Cloud Engineering (Cloud Computing on AWS, Docker)

Imperial College London - MSc Applied Mathematics October 2020 - October 2021

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

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

Professional Experience

Darktrace - Data Analyst November 2021 - Present

- Developed Lead Scoring Model to increase lead to customer conversion rate.
- Built Forecasting model to determine lead generation requirements to hit sales targets.
- Ad-Hoc Data Mining for insights/stakeholders and presented data through Power BI dashboards.

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

- 8 Week Research Programme: 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.
- At the end I created a powerpoint to present my research to the academics within the department.
- Research Presentation: STOR-i/Intern/TajPatelPresentation.pdf

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.
- Model coded from scratch using only Numpy and SciPy, proving knowledge of underlying theory.

Cheapflights Web-Scraper

- Built production grade WebScraper with Selenium to gain familiarity with the ETL process.
- Deployed using Docker on an EC2 instance and stored data on RDS and S3.

Links (Hyperlink)

- [Linkedin](#)
- [GitHub](#)
- [Coursera Machine Learning - Certificate](#)
- [Coursera: Big Data Analysis with SQL - Certificate](#)

Skills

- Proficient with: Python(Numpy, Pandas, Scikit-Learn, PyTorch), Git, SQL.
- Familiar with: Prometheus, AWS (EC2, S3, ECR, RDS), Docker, A/B Testing.

References

Available upon request.