

ZORAIZ AZEEM

Data Scientist/Analyst

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<https://github.com/zoraizazeem>

EDUCATION

BSc Chemistry

Classification : 1st Class

2017 – 2020

University of Liverpool

- **Mathematics for physicists : Overall grade = 99% 1st class**
Intra-disciplinary mathematical methods (linear algebra and matrix calculus).
- **Further Organic Chemistry : Overall grade = 88% 1st class**
3rd Year organic chemistry, studying synthetic and physical organic chemistry.
- **Inorganic Materials Chemistry : Overall grade = 72% 1st class**
3rd year module studying economically-efficient strategies for chemical production.

A-Level Qualifications

2015 – 2017

Queen Elizabeth's Grammar School

AABA A-Levels in Chemistry, Biology, Maths and AS Level
Physics UCAS credits: 156 points

COURSES

Coursera Course - Fundamentals of Machine Learning in Finance

Accredited by NYU Tandon School of Engineering

2020

- Course studied : **Statistical arbitrage techniques**, contemporary and complex machine learning and data science methods. Topics include: Neural Networks, Data engineering, Hidden Markov Models, t-SNE etc.

Coursera Course - Databases, SQL & Python for Data Science and AI

Accredited by IBM

2020

- Course studied : SQL and cloud storage.
Python data visualisation and data frame (Pandas) manipulation, as well as best practices and techniques in data science.

PROGRAMMING LANGUAGES

- **Python:** Experience spans two main categories: Machine Learning and Data Science. Some libraries frequently used: Matplotlib, Numpy, Pandas, Scikit-learn, TensorFlow, Keras, Tkinter, face_recognition and sql-alchemy.
- **JavaScript (inc. HTML and CSS):** Development of full stack application, with static and dynamic servers, using MongoDB (noSQL) for data persistence. Some libraries/packages frequently used: node.js, Express, Monk.
- **SQL:** Using MySQL and Amazon Web Services (relational database systems), as well as IBM Cloud Computing, using the Db2-e2 service to run SQL queries.

PREVIOUS WORK

Research Internship @ XJTLU, Suzhou, China

- The study was conducted on Ni/Ni(OH)₂ nanocomposites for Solar-to-Hydrogen conversion.
- Large and uncommon datasets, manipulated to find optimal system for hydrogen production.
- Working with a research group, including non-native English speakers.
- Problem-solving technical and scientific issues.
- Began to learn Mandarin as a third language.

Proprietor & Co-Founder of YellowLabelCo.

- Business co-founded to produce textile products, sold online on Etsy & eBay.
- Responsibilities include: Item pre-production, SEO, web-marketing, photoshop skills and sales strategy revision using web scraping.
- Revenue recently reached £50,000 pcm

Casual Worker, @ University of Liverpool

- Paid public speaking position. Persuading prospective students to study at Liverpool University.

Peer Assisted Learning Module Co-Ordinator, @ University of Liverpool

Peer Mentor, @ University of Liverpool

- Enhanced leadership and guidance skills, whilst advising and supporting struggling younger students.

RECENT PROJECTS

I have numerous data science projects under my belt, so if you if you would like any further details please check out my Github link above.

- **Green House Gas data science project:** I evaluated various data sets from the world bank website to compare the pollution produced by various states, comparing co-variance values.
- **Life Insurance data science project:** I used sqlalchemy to link my IBM cloud to a Jupyter notebook, to query the data I had loaded to said database.

LANGUAGES

English: ★★★★★

Hindi/Urdu: ★★★★★☆

Mandarin: ★☆☆☆☆