

Ilkin Mengusoglu

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experience

FEB 2024 - MARCH 2024 **Square-Enix** *[Work Experience]*

Joining the data science team on machine learning techniques in CRM with Final Fantasy players. Understood:

- Automated data science pipelines and CI/CD
- Methods of Big Data e.g. BigQuery and Cloud Storage
- Sentiment analysis and other NLP in consumer insight
- Organisational tools like Google Cloud, Jira, or Powerbi
- Web scraping and telemetry as part of data mining

DEC 2023 - PRESENT **London Healthcare Insights** *[Web Developer]*

Spearheading the design and Tailwind CSS implementation of londonhealthcareinsights.com.

projects

CODE **Marketing agency performance analysis in Google BigQuery**

Data cleaning, metric selection, and bootstrapping on a real Google Analytics dataset.

CODE **Ceiling reconstruction in 3D scans**

Solving this novel problem for an R&D company challenged my linear algebra, image processing, and clustering skills.

CODE **Neural networks from scratch in C++**

I developed neural network libraries to understand machine learning fundamentals.

CODE **Marble run over London's density heatmap**

An imaginary problem encouraged me to find my own techniques using vanilla numpy and pandas.

CODE **Implementing the simplex optimisation algorithm**

My first project familiarised me with version control, debugging, and code etiquette in programming.

languages:

PYTHON:

- scipy
- scikit-learn
- PyTorch
- nltk

CSS:

- Tailwind
- Materialize

SQL (Google BigQuery)

C++ (GMP)

HTML

L^AT_EX

education

MEDICAL SCHOOL, **UCL**

Active in the rowing, climbing, and AI societies.

A-LEVELS, **Peter Symonds College**

A-Level grades: A*A*A*A*A* in Biology, Chemistry, Maths, Further Maths, and EPQ.

Highlights:

- Twice Biology Olympiad Gold medalist, entering the top 16 the second
- Self-studied A-Level Further Mathematics within 6 months
- Founded the Medical Discussion Group