Leo Kravtchin

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Education

The University of Edinburgh Sep. 2019 – May 2025
Master of Informatics (MInf Hons.) in Computer Science, expected grade First Class *Edinburgh, United Kingdom*

Dollar Academy Aug. 2018 – May 2019
Scottish Higher: AAAAA in Computer Science, Maths, Physics, Biology, English *Dollar, United Kingdom*

Experience

Business Intelligence Engineer Intern Dec. 2023 – May 2024
Amazon EU SARL *London, United Kingdom*

- Developing data pipelines for analytics dashboards within the Supply Chain Execution department
- Building internal tools based on business requirements using Python, SQL, and AWS technologies
- Collaborating with internal stakeholders for operational simulations and data modelling

Data Engineer Working Student June 2023 – Aug. 2023
METRO Markets GmbH *Dusseldorf, Germany*

- Provided automated data insights using Python, MySQL, Power BI, and Excel based on big data
- Set up new data pipelines running complex MySQL queries for performance analysis of internal systems
- Applied version control on production code using Git and collaborated within an agile team
- Organised teamwork collaboration with DevOps team to deploy developed applications to Google Cloud

Data Analyst Working Student June 2022 – Dec. 2022
METRO Markets GmbH *Dusseldorf, Germany*

- Produced data analysis and machine learning reports using Python and MySQL for internal teams
- First-respondence and post-mortem of incidents using MySQL on big data production databases
- Created an application for hourly data insights using JavaScript, MySQL, and Google Cloud Kubernetes
- Set up automated performance monitoring of the deployed application using Grafana and Slack alerts

Projects

Snippet - 69% | *Python, Flask, React, PostgreSQL, MongoDB, Docker, Google Cloud, Jenkins* Jan 2023 – Apr 2023

- Developed a full-stack web search engine for 10 million Spotify podcast transcript snippets in a team of six
- Implemented ranked information retrieval, semantic search, topic modelling, and query expansion in Python
- Used Docker and Google Cloud to deploy the application and connect to the databases
- Set up CI/CD on GitHub using Jenkins, automatically applying new changes to the shared repository

RecognisED - 88% | *Python, TensorFlow, Keras, Scikit-Learn, Java, Kotlin, Firebase, Git* Sep 2022 – Jan 2023

- A full-stack mobile app for real-time human activity recognition from wearable sensors in a team of three
- Used deep learning to achieve 94% classification accuracy of 14 different physical activities
- The app shows the classified activity, the step count, and stores historical data of each user using Firebase
- Received feedback and testing from an impartial group for continuous feature improvements

BSc Thesis - 77% | *Python, TensorFlow, Scikit-Learn, PM4Py, Prophet, NeuralProphet, Git* Sep 2022 – Apr 2023

- Human activity recognition over years of sensor data, achieving an accuracy of 82% using deep learning
- Detected long-term activity deterioration using clustering, process mining, and activity forecasting
- Analysed external factors to correlate to daily behaviour patterns to eliminate bias and anomalies
- Collaborated with the university's AIML research group and supervised by senior researchers in this field

Technical Skills

Languages: Python, JavaScript, SQL (MySQL, PostgreSQL, MongoDB, Apache Impala), Java, HTML, CSS
Frameworks: React, Flask, REST APIs, Firebase, JUnit, Prophet, NeuralProphet, OpenAI API
Developer Tools: Git, Docker, Google Cloud Platform, Amazon Web Services, Jenkins, pip, Conda, npm
Libraries: TensorFlow, Keras, Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn, PM4Py, NLTK, Gensim