


# KYRYL LEBEDIN

2nd year student in Durham University  
Computer Science BSc Hons


 Portfolio

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## ABOUT ME

Focused on Data Science, AI/ML/Software Engineering, Business Development.

Adaptability is one of my key strengths. Relocated to the UK three years ago due to the war in Ukraine. Despite various challenges, completed A-levels in 1 year, secured a place at Durham University, and confidently staying on track of 1st grade honors.

## PROJECTS

[clickable GitHub Links](#)

### Atom Bank Stock Price prediction AI model

[private repository, request access](#)

Developed with team of 4 during 24h of Hackaton competition for Atom Bank.

- Predict the stock price for next year of s&p500 company of your choice
- LSTM model, agentic workflow with Microsoft Autogen, DeepSeek API.

**Skills:** Python, Tensorflow, Keras, Microsoft Autogen, Django, JavaScript, Bulma

### Brain EEG Data multi-modal AI

[private repository, request access](#)

Click link to open [my project research paper](#)

- Designed, optimised and implemented the ML model to predict what subjects see with their eyes, using brain data from sensors in real time.
- Implementation of Federated learning paradigm, addressing brain data collection ethics.

**Skills:** TensorFlow, neuroscience, data visualization, federated learning

### Video Data System Level Processor

[/video\\_encoder](#)

Click link to open [project structure and time log report](#)

- Wrote the per frame binary video encoder library in C++.
- Implemented video processing with optimization algorithms, SIMD, multi-threading.

**Skills:** C++, Linux, Bash, system programming, SIMD, multiprocessing

### Code Complexity Predictor ML

[/algorithm\\_analyze](#)

My personal implementation of LeetCode complexity analyzer. [Preview](#)

- Designed the ML model to determine complexity of code with high accuracy.
- Built Fullstack Website with backend, frontend and custom UI using Django, Jinja and JavaScript.

**Skills:** Python, Django, SQL, TensorFlow, Sci-kit, matplotlib, JavaScript

## WORKING ON

### IBM Entertainment Mobile App

reference: [jOnnymac@uk.ibm.com](mailto:jOnnymac@uk.ibm.com)

Working for IBM client partnering with Durham University to improve experience on IBM SkillBuild platform. Building Game Show Mobile Game with AI Host to add interaction into learning on platform.

**Skills:** IBM Granite, IBM Cloud Computing, SQL, JavaScript, OOP, React Native, Tailwind, C#

## EXPERIENCE

2023 – 2024

### Bot Development for Corporate Management

Invisible Outsource Ukraine

- Helped implementing OOP architecture of bot-user interaction.
- Implemented SQLAlchemy as ORM to work with PostgreSQL.
- Implemented module with CRUD operations, user authentication and authorization with PostgreSQL.
- Worked with Google API to fetch company provided dataset into bot.
- Helped with Docker Containerization and deployment.

Repository copy: (sensitive information removed) [github.com/kyryl-lebedin/TelegramBotPortfolio](https://github.com/kyryl-lebedin/TelegramBotPortfolio)

**Technologies used:** Python, my-telegram-bot, Docker, PostgreSQL, SQLAlchemy, Google API.

**Reference:** You can contact my team leader at: [techrahovski@gmail.com](mailto:techrahovski@gmail.com)

## EDUCATION

2023 - 2026

### Computer Science BCs, Durham University

University

1st year average grade - 71%

2022 - 2023

### A levels, St John's School, Bishop Auckland

Sixth Form

Math, Further Math, Physics.

## CERTIFICATIONS

- IBM Machine Learning with Python, with Honors
- IBM Introduction to Deep Learning & Neural Networks with Keras -6pt
- DeepLearning.AI, Stanford University: Supervised Machine Learning

## LANGUAGES

**English** - fluent (advanced C2), **Ukrainian** - native, **Russian** - native