


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 honours.

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, optimized 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

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

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

Reference: You can contact my team leader at: 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

AAB - Math, Further Math, Physics.

CERTIFICATIONS

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

LANGUAGES

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