Dmytro Ushchapovskyy

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Education

MEng Electrical & Electronic Engineering with Management | Imperial College London   Oct 2016 – Present
Current Aggregate Result – Upper Second Class
Specialist modules include:

- Machine and Deep Learning
- Mathematics for Signals
- Algorithms and Data Structures
- Stochastic Processes
- High Level Programming
- Optimisation

A-Levels | Abbey College Cambridge   Sep 2014 – Jun 2016

- Further Mathematics – A*
- Mathematics – A*
- Physics – A

GCSEs | Wycliffe College   Sep 2011 – Jun 2014

- 11 passes including A* in Mathematics and Physics.

Work Experience

Quantitative Analyst | Hartree Partners | London, United Kingdom   Apr 2019 – Oct 2019

- Developed reinforcement learning algorithms for predictive asset optimization and cost reduction.
- Applied signal processing and probabilistic methods to extract insights from a large quantity of data.
- Built forecasting models for various parts of the energy markets such as BSUoS and solar generation.

Tutor | Fire Tech Camp | London, United Kingdom   Dec 2018 – Present

- Teaching Python, high quality coding practices and computing skills to young students.
- Developing my verbal communication skills and competency-dependent teaching techniques.
- Leading groups through their first complete coding projects.

Lighting Manager | Imperial College Union | London, United Kingdom   Nov 2017 – Apr 2019

- Delivered services in the student bar and nightclub operating and maintaining the lighting system.
- Improved performance of new and existing staff members and provided comprehensive training.

DJ and Music Producer | Freelance | Worldwide   Oct 2016 – Present

- Self-taught DJ and music producer, performing at over 25 events to date.
- Performed at Sysmic Festival Switzerland with over a thousand students, making £400 for the night.
- Other notable nights include Ministry of Sound London and Imperial College Summer Ball.

Projects

Imperial Annual AI Hack – Winner | Group competition | 2020

- Together with a team designed and built a tool which identified anomalies and their cause in industrial machines.
- Built a variational autoencoder for data generation and anomaly identification using latent representations.

Brevan Howard Trading Competition - Winner | Individual Competition | 2019

- The winner of the £10000 grand prize of a 3 month long algorithmic trading competition.
- Built simulations and reinforcement learning agents that exploited the seasonal nature of the markets.
- Utilised various reinforcement learning libraries such as stable-baselines and Ray RLlib to speed up prototyping.

Blackrock Annual Algothon – Runner Up | Group Project | 2019

- Third place in a 24-hour Algothon focused on alternative data for alpha and beta generation in the markets.
- Built custom market backtests, market simulations and reinforcement learning agents under time pressure.

Relevant Skills

Programming and Query Languages: Python | C++ | F# | SQL
Operating Systems: Linux Ubuntu | MacOS | Windows
Spoken Languages: English | Russian

Other Interests

A keen cross-country runner and an athlete. First half distance marathon completed in 2014 and a full distance one in 2015 in just above 4 hours. Also, a triathlete and an avid cyclist. Looking forward to completing first Olympic distance triathlon in May 2019.