ANNA KUCHKO
AI/ML RESEARCH SCIENTIST

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Skills

AI/ML: Machine Learning, Deep Learning, Reinforcement Learning, Imitation Learning, Conservative/Constrained Reinforcement Learning, Vision Language Models, Vision Language Action Models, Transformers, Computer Vision, Optimal Stopping, Time Series Prediction, Fault Prediction, Classification, Clustering, Image Quality Prediction

Coding: Python, PyTorch, numpy, pandas, Scipy, SQL, PySpark

Professional Experience

JOURNEO PLC   ASHBY-DE-LA-ZOUCH, UK

- **Machine Learning Scientist**   *July 2024 – September 2024*
  Led a project on developing software for automatic image quality assessment and identification of incorrectly installed cameras from CCTV footage using traditional machine learning and Vision Transformers. Performed data analysis to extract useful statistics to identify causes of failure from recording devices health data.

UNIVERSITY OF WARWICK   COVENTRY, UK

- **Senior Graduate Teaching Assistant**   *February 2022 – April 2024*
  Taught and marked a number of graduate and undergraduate level modules in the departments of Statistics and Computer Science, including: CS255 - Artificial Intelligence, CS910 - Foundations of Data Analytics, ST120 - Introduction to Probability, CS331 - Neural Computing, ST104 - Statistical Laboratory I.

VTB BANK   MOSCOW, RUSSIA

- **Data Scientist – Quantitative Risk Management**   *February 2020 – May 2021*
  Performed quantitative risks assessment and behavioural modelling of loans prepayments and deposits withdrawals managing a risk of a 150 million dollars total loan book and 2.7 billion deposits portfolio using Python. Conducted EDA and statistical analysis of raw data. Efficiently utilised Pyspark to create ML pipelines used across Data Science team.

MERCURY DEVELOPMENT LTD   SAMARA, RUSSIA

- **Business Analyst**   *October 2019 – February 2020*
  Worked as a part of the scrum team, in an agile methodology with sprint cycles and daily stand-ups. Used Jira and Trello for task management and communicated directly with developers. Drafted specifications and user stories for OS and software applications on Custom Android devices from scratch. Made flowcharts in draw.io to communicate workflows with the development team. Analysed and clustered big data as a part of the EDA stage of databases migration project after two financial companies' merger. Visualized EDA results for presentation to the customer.
- **Business Analyst Intern**   *June 2019 – August 2019*

STRATEGY PARTNERS GROUP   MOSCOW, RUSSIA

- **Analyst A2**   *July 2019 – October 2019*
  Conducted market sizing analysis for various industries, performed strategic and financial assessment of top-tier companies. Provided information support for strategic plans development for local governments.
- **Analyst Intern**   *March 2019 – July 2019*

Education

- **MPhil/PhD in Statistics and Machine Learning** *October 2021 – October 2025*
  University of Warwick, Centre for Doctoral Training (CDT) in Maths & Stats
  My PhD research is focused on developing algorithms for solving inverse Reinforcement Learning and Inverse Optimal Stopping problems in a "safe" manner using Imitation Learning-inspired methods with application to autonomous driving and intervention policies.

Awards & Scholarships

- Engineering and Physical Sciences Research Council (EPSRC) & Department of Statistics University of Warwick PhD funding, October 2021 – October 2025
- Nominal EY Scholarship for Future Business Leaders, March 2021, EY
- Government academic scholarship for exceptional research activities and excellent study results granted for February 2018 – August 2018, September 2018 – January 2019, February 2019 – August 2019, September 2019 – January 2020, February 2020 – August 2020, September 2020 – January 2021, SSEU