

Arina Bekenova

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Work Experience

Data Science Intern

Sept 2023 – Aug 2024

Argus Media

London, UK

- Built a document classifier and an automatic headline writer for market commentaries using Large Language Models (LLMs), optimising real-time content generation.
- Fine-tuned an LSTM NER model on a text-based dataset, improving accuracy from an average of 8% to 85%.
- Automated article classification using OpenAI's GPT models through the chat-openai package, achieving much faster and more accurate categorisations.
- Processed large datasets using MySQL and trained a Random Forest model with scikit-learn to accurately predict headline prefixes and publication types.

Complex Recovery Dispute Intern

August 2023

Gateley PLC

London, UK

- Contributed to resolving a complex recovery dispute, assisted in solving court disputes, and attended court appeals.

Summer Intern

Jun 2022 – Aug 2022

WGP Global

London, UK

- Prepared market research and wrote corporate development reports on the clients' internal operations.

Advisory Summer Intern

Jun 2021 – Jul 2021

Grant Thornton LLP

Almaty, Kazakhstan

- Conducted the data analysis of Kazakhstan's largest banks using R and Python based on tax payment information.

Education

University of St Andrews

Sept 2020 – Nov 2023

BSc Hons Mathematics: Pure/Applied & Statistics

St Andrews, UK

- Advanced/Fundamental Linear Mathematics
- Complex/Fundamental Analysis
- Group/Graph Theory
- Statistical Inference
- Financial Mathematics
- Theory of Electric and Magnetic Fields
- **Dissertation: Matroids - The Problem of \mathbb{F} -Representability**

University of St Andrews

Sept 2019 – Jun 2020

International Foundation Programme: Faculty of Science

St Andrews, UK

- Courses: Mathematics, Statistics & Economics
- Achieved the Direct Entry to the 2nd Year of BSc Hons Mathematics

1st Lyceum

Sept 2008 – Jun 2019

Certificate of Secondary Education

Astana, Kazakhstan

- Obtained grade 5/5 in all undertaken subjects

Organisations

Vice-President <i>St Andrews University Mathematics Society (SUMS' website)</i> <ul style="list-style-type: none">• Worked closely with the President to plan and manage weekly events	Sept 2022 – May 2023 <i>St Andrews, UK</i>
Director of Finance and Sponsorship <i>Sitara Charity Fashion Show (Sitara's website)</i> <ul style="list-style-type: none">• Hosted fundraiser events to raise money for UNICEF and SEEAC charities	May 2022 – May 2023 <i>St Andrews, UK</i>
Student Mentor <i>University of St Andrews</i> <ul style="list-style-type: none">• Supported new students to adapt to life at the university	Sept 2021 – May 2023 <i>St Andrews, UK</i>
Maths Tutor <i>Author24</i> <ul style="list-style-type: none">• Worked as a tutor to university students for exam preparation.	May 2021 – Sept 2021 <i>Online Platform</i>
Treasurer <i>University of St Andrews Armenian Society (Society's website)</i> <ul style="list-style-type: none">• Helped the society's president with budgeting and fundraising strategies	Sept 2020 – May 2021 <i>St Andrews, UK</i>

Projects

VIP: History, Mathematics, and the Public <i>Researcher & Content Creator</i> <ul style="list-style-type: none">• Authored and published historical articles about Women in Mathematics on the website maths-from-the-past.org• Led social media management on Instagram and Twitter	Jan 2023 – May 2023 <i>St Andrews, UK</i>
STEP: Virtual Museum of Mathematical Objects <i>Researcher & Content Editor</i> <ul style="list-style-type: none">• Edited and curated content for a virtual museum of mathematical artifacts, which was subsequently included in the University of St Andrews' evening degree programme in September 2022	Jun 2022 – Aug 2022 <i>St Andrews, UK</i>

Honours & Awards

3rd Place at Scottish Universities Mathematics Olympiad - SUMO <i>University of St Andrews</i>	2022 <i>St Andrews, UK</i>
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Skills

Programming: \LaTeX , Python, R-Studio, SQL, HTML, CSS, YAML, Javascript
Tools: Machine Learning (ML), Artificial Intelligence (AI), Large Language Model (LLM), OpenAI, Prompt Engineering, Git, AWS, Transformers, LSTM
Packages: spaCy, TensorFlow/PyTorch, NLP, NER, scikit-learn
Languages: Russian/Kazakh (Native), English (Fluent), French (Intermediate)