

Dariya Mamyrbek

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EDUCATION

Master of Science in Mathematics, Purdue University | GPA: 4.0

Honors and Awards: Graduate Teaching Assistantship with Tuition Coverage

Bachelor of Science in Mathematics, Nazarbayev University

Honors and Awards: Full Academic Scholarship

Fort Wayne, IN

August 2021 - May 2023

Astana, Kazakhstan

August 2017 - May 2021

RELEVANT EXPERIENCE

Data Science & Analytics Intern

Zimmer Biomet

May 2023 - August 2023

Warsaw, IN

- Developed predictive **Machine Learning** models in **Python** with oversampling and cost-sensitive learning for forecasting patient outcomes, based on 600,000 clinical trial data points
- Analyzed MyMobility Apple Watch data using **statistical techniques** to reveal correlations between surgery timing, location, and recovery duration; **created reports** with data visualizations
- Utilized **statistical models** and **data visualizations** to proactively identify high-risk patients for knee surgery revision which resulted in precise interventions and elevated surgical outcomes

Data Science Researcher ☑

The Data Mine, Purdue University

August 2022 - May 2023

West Lafayette, IN

- Collaborated with Central Insurance, following the **Agile-Scrum** methodology, to analyze their 2500+ social media accounts using **web scraping techniques in Python** and **APIs**
- Performed **social network analysis** and **clustering algorithms** to identify influencers and segment customers, leading to an increase in **social marketing metrics by 20%+** and improved market targeting strategies

Data Science Consultant

Purdue University

January 2023 - May 2023

Fort Wayne, IN

- Assisted two faculty members and five students in various areas, including data decoding, **experiment and survey design, data analysis, machine learning**, and other statistical problems

Technology Risk Analyst Intern

Department of Technology - City of San Francisco

May 2022 - August 2022

San Francisco, CA

- Conducted **data analysis** on Third-Party Risk Management data, created insightful **dashboards** and **presented findings** and recommendations to higher management
- Automated a process of cleaning and preprocessing TPRM data from various sources in **Python**, improving the processing time by 90% transferring data from Excel spreadsheets to a new city app

Risk Data Analyst

Home Credit Bank

April 2021 - August 2021

Almaty, Kazakhstan

- Conducted **data analysis** and **modeling** to identify and assess emerging fraud risks using **SQL** and **Python**, leading to the development of proactive risk mitigation strategies
- Developed a dashboard for monitoring financial losses using **Power BI** and **Oracle SQL Developer**

Audit and Assurance Intern

EY

January 2021 - March 2021

Almaty, Kazakhstan

- Worked on an audit project for Kazakhstani 2 major banks' annual report by analyzing financial data and checking cash flow statements, inventory, provisions, prudential norms
- Streamlined the audit process by creating **macros** using **MS Excel VBA** to automate various manual tasks, resulting in a 25% improvement in efficiency and accuracy

PROJECTS

- Data Augmentation with Fractional Linear Transformations** ☑ - won the 3rd place award in "Math Matters Talk" competition and in the **Short Talks Competition** within Data Science Week 2021
- DoorDash Delivery Time Prediction** ☑ - developed **predictive machine learning models (Random Forest, XGBoost, etc.)** to predict delivery times for DoorDash orders
- Breast Cancer Survival Prediction with Neural Networks and Cox Regression** ☑ - explored an extension of the Cox proportional hazards model with neural networks

LEADERSHIP

- Founded and was a **President** of **Data Hub Club** from October 2021 to May 2022
- Served as an instructor for the "College Algebra" course, and a TA for the "Statistical Computing" course