Adilet Akimshe

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Education

Nazarbayev University — Kazakhstan, Astana
Bachelor of Arts in Mathematics 3.65/4.00 cGPA (top 13 of the math class as of Spring '24) — *Aug. 2022 – May 2026*

Experience

Undergraduate Research Assistant — Dec. 2023 – Present
Nazarbayev University — *Kazakhstan, Astana*

- Factorized primes of order 10^8 on D-wave quantum annealer
- Solved linear systems of 1024x1024 on D-wave quantum annealer
- Found method of finding eigenvalues of matrices on D-wave quantum annealer
- Explored ways to optimize Hamiltonian for solving linear systems

SIAM NU student chapter, Research Assistant — Dec. 2023 – Present
Nazarbayev University — *Kazakhstan, Astana*

- Find mathematical model for predicting cancer growth
- Model F-KPP based glioblastoma multiforme model with extended parametric space
- Collaborate with professors and senior students
- Organize research meetings with research collaborators

Projects

Datasaur Hackathon project by JSC National Information Technologies | *Python, Tensorflow, Keras* — Oct. 2023

- Used computer vision to classify fictitious car examinations
- Selected as one of 10 teams to be invited for solution presentation
- Achieved 94% accuracy on categorical crossentropy by using ResNet to classify fakes
- Got 4% accuracy increase with photoshop-stable data augmentation

Cosmothon Hackathon project by Spacelab | *Roboflow, YOLO* — Feb. 2024

- Classified 3D printing mistakes with YOLO
- Achieved average 78.4% accuracy on mAP50 for classification of printing errors
- Selected as top 2 out of 6 engineering teams

Student Organizations

SIAM NU Student Chapter — Aug. 2023 – Present

- Conducting research about mathematical model for glioblastoma cells
- Connect with alumni and organize meetups
- Secured funding in amount 100,000tg for club activities for AY2023-2024 from sponsors

Japanese club — Aug. 2022 – May 2023

- Collaborated with the Japanese Embassy to obtain exclusive cultural items
- Secured funding in amount 500,000tg for club activities for AY2022-2023 from sponsors

Technical Skills

Languages: English (full working proficiency), Russian (native), Kazakh (native) Mandarin Chinese (elementary)
Programming Languages: MATLAB, Python, C/C++, Mandarin Chinese
Frameworks: Sci-kit, Tensorflow, Keras
Developer Tools: Git, Google Collaboratory
Libraries: pandas, NumPy, Matplotlib