Aman Urumbekov

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PUBLICATIONS

NTIRE 2024 Challenge on Image SR (×4): Methods and Results(CVPR workshop)
KSTU

- Developed a novel hybrid neural network combining Mamba (State Space Models) and Transformers, achieving 13th place out of 20 despite computational resource constraints preventing full model convergence.

EXPERIENCE

Computer Vision R&D(Part-Time)   January 2024 – April 2024(4 mos.)
Ik2 Sàrl   *Switzerland, Morges*

- Developed from scratch a Super-Resolution algorithm using Neural Networks, integrated with a custom-designed data collection pipeline, achieving ×4 and ×12 super-resolution from daily-updated, low-quality open satellite images. Enhanced images to closely match the quality of Google Maps photos. earthtodate.com
- Created versatile Super-Resolution algorithms capable of ×4 and ×10 magnification applicable to nearly any satellite imagery, broadening potential uses in various imaging applications. skycues.com

Data Scientist(Part-Time)   November 2022 – June 2023(7 mos.)
TheCramerProject   *Kyrgyzstan, Bishkek*

- Developed a new OCR algorithm capable of reading Kyrgyz language text with 99.32% accuracy.
- Trained a total of 40 individuals, including bankers and fintech employees, in the fundamentals of Computer Vision.

HONORS AND AWARDS

2x International Science-Technical Conference for Young Scientists   March 2023, March 2024
- Awarded top recognition in the top 6.9% of submissions nationwide for two consecutive years.

First Place at Datathon Summer 2023 - Northeastern University   July 2023
- Won 1 place among 27 participants with a MSLE of 0.11330 on the private metric.

First Place in Datathon for Kyrgyz Handwritten Letter Recognition   November 2022
- Won 1 place among 100+ participants with an accuracy of 99.09% on the private metric.

Fourth Place at OEMC Hackathon: EU Land Cover Classification   September 2023
- Won 4 place among 31 contenders, marked by a 0.49583 weighted F1-score.

Third Place at FinOlimp   September 2023
- Ranked in the top 3 among nearly 2,000 participants, demonstrating exceptional expertise in enhancing mobile banking security and functionality through automated personal document scanning with OCR.

EDUCATION

Kyrgyz State Technical University (GPA 3.85/4.0)   Kyrgyzstan, Bishkek
Bachelor of Data Science and Machine Learning   *Aug. 2022 – May 2026(Expected)*

TECHNICAL SKILLS

Languages: Python, C/C++
Frameworks: PyTorch, TensorFlow and Keras, Scikit-learn
Developer Tools: Git, Docker, Jupyter Lab
Libraries: Pandas, NumPy, Matplotlib, Seaborn, Plotly