

Timur Unaspekov

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EDUCATION

Nazarbayev University. Bachelor of Science in Computer Science. Astana, Kazakhstan	2020-2024
New York University AI School. New York, United States	Jan. 2022

WORK EXPERIENCE

Nazarbayev University, Research Assistant <i>www.nu.edu.kz, www.alaris.kz, issai.nu.edu.kz</i>	Aug. 2021 — Current Astana, Kazakhstan
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- RA at Institute of Smart Systems and Artificial Intelligence (ISSAI) Dec. 2021 — Current.
- RA at Astana Laboratory for Robotic and Intelligent Systems (ALARIS) Aug. 2021 - Dec. 2021.
- Research interest - Computer Vision.

ISSAI, Multimodal person verification using audio, video and synthetic thermal data

Research at Institute of Smart Systems and Artificial Intelligence (ISSAI)

- Achieved 370% increase of model accuracy after conducting over 500 training and tuning person verification models with different score fusion methods using NVIDIA DGX Station A100. Trained CycleGAN to translate visual to thermal domains using SpeakingFaces dataset. Trained Yolov5 model to detect and then crop faces from Voxceleb1, and Voxceleb2 datasets, then used CycleGAN for generating high-quality synthetic thermal images.

ALARIS, Probabilistic based decision making algorithms for intelligent robotics

Research at Astana Laboratory for Robotic and Intelligent Systems (ALARIS)

- Used the ZED2 depth camera on the NVIDIA Jetson robot for spatial mapping, object detection, body tracking, depth sensing and position tracking. Trained the Yolov5 model for the detection of people and objects. Used the Robot Operating System (ROS) created a movement algorithm based on the terrain and images from the depth camera.

TAS Credit, Data Science Expert <i>www.tascredit.kz</i>	Jan. 2022 — Current Almaty, Kazakhstan
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- Department of Data Analysis. Managing data collection and further analysis. Developed a system for forecasting company development trends and revenue using machine learning. Developed high performance system for client classification.

First Heartland Jusan Bank, DataScience intern <i>www.jusanbank.kz</i>	Apr. 2021 — Aug. 2021 Almaty, Kazakhstan
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- Department of Data Analysis and Machine learning. Managed computer vision projects.

Image Search Feature

- Increased the efficiency of the pipeline by managing the development of the API. Managed data preprocessing.

Analysis of the small and medium business market in Kazakhstan

- Prepared and then analysed the database of 750,000 companies in Kazakhstan including address, turnover, location coordinates and number of employees.
- Made a ranking system by analyzing the data. Researched the areas of Kazakhstan where it is profitable to open branches and install ATMs. Analyzed data to predict trends in the economy of Kazakhstan.

Antifraud and Scoring systems

- Analyzed the methods of identifying creditworthiness of an individual and preventing fraudulent transactions
- Created variation of the scoring system for the Risk Department.
- Advised the Security Department in choosing an anti-fraud system.

AllurGroup, Data Science Expert <i>www.allurgroup.kz</i>	Aug. 2020 — Apr. 2021 Almaty, Kazakhstan
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- Designed a company database. Managed development, rebranding and data analytics.
- Designed pipeline for data flow from over 20 sources for company's trends forecasting. Reduced company's expenses by 7% by analyzing marketing and vehicle production data.

SKILLS

Programming Languages	Python, R, C++, C, Java, SQL
Software:	PyTorch, Matplotlib, GIT, Linux, Tableau, Power BI, Excel, \LaTeX