Temirlan Kdyrkhan

+1(754)231-7075 temirlan9908@gmail.com github.com/TemirlanKN linkedin.com/in/temirlan-kdyrkhan

Education

Florida Atlantic University Graduation date: May 2025
Masters in Data Science and Analytics *current GPA 4.0*

Lomonosov Moscow State University Graduation Date: May 2021
Bachelor of Mathematics *GPA 3.25*

Relevant Coursework

- Generative AI
- Business Analytics & Big Data
- Data Structures & Algorithms
- Statistics
- Deep Learning
- Data Mining & Machine Learning
- Reinforcement Learning
- Applied Math

Skills

- LLM, Data Mining, Big Class Imbalance, Feature engineering, Statistical analysis, Deep Q-Learning, Performance tuning, Python, TensorFlow, PyTorch, GCP, Azure, C++, SQL, Java, GIT, REST API, Unix Shell, CI/CD

Professional Experience

FAU - Graduate Researcher / Student Projects September 2023 – May 2025
- Conducted applied research in fraud detection using deep neural networks and imbalance learning techniques
- Developed and deployed AI models and web applications using Python, PyTorch, Flask, and GCP

FOXI Boats - Software Engineer Intern March 2022 – September 2022
- Migrated legacy Java code to Kotlin Jetpack Compose, enhancing both usability and visual appeal.
- **Reduced app crash rates by aprox. 33%** through rigorous debugging and optimization of the landing page.
- **Improved data retrieval** by debugging SQL queries, reducing execution time by 10%

Bank CenterCredit JSC - Software Engineer Intern June 2021 – November 2021
- Integrated Alseco bill payment API in microservices, resulting in **20%** reduction in transaction **processing time.**
- Boosted service efficiency through the development of optimized SQL queries, B2B operations.
- **Achieved a 95% success rate** in integration testing for critical services, reducing post-deployment issues.

Prophi - Math and Computer Science Mentor Sep 2018 – Apr 2021
- Delivered personalized instruction on the fundamentals of data structures to students worldwide.

Project Experience

Medicare Fraud Detection | *Python, PyTorch, Scikit-learn, Imbalanced-learn*
- Developed a Medicare fraud detection system using DNN, addressing **class imbalance challenge**, which was 99.97% negative to 0.03% positive cases. **Achieved a 20% improvement** in ROC-AUC score. View the link.

Reinforcement learning-based AI agent in Tetris | *Deep Q-Networks (DQN), Actor-Critic, OpenAI Gymnasium*
- Developed a reinforcement learning-based AI agent to play Atari game Tetris. Developed **Deep Q-Networks (DQN)** and **Actor-Critic** for strategy optimization. View the link.

Speech-to-Text and Text-to-Speech WebApp | *Python, Flask, Docker, gcloud CLI*
- Developed a cloud-based web application leveraging Google Cloud **Speech-to-Text and Text-to-Speech APIs**. Implemented real-time audio processing, including audio recording and text-to-speech synthesis. View the link.

Digit Recognition System | *Python, TensorFlow, PyTorch, Deep Learning, NLP*
- Built CNN model achieving 99.2% accuracy on MNIST dataset. Implemented data augmentation increasing model robustness by 25%.View the link.

Certifications

- Google for Developers Central Asia, Predictive Modeling and Analytics. View Credentials
- Neural Networks and Deep Learning DeepLearning.AI. View Credentials
- Introduction to Data Science in Python, U. Michigan. View Credentials
- IBM Artificial Intelligence Fundamentals. View Credentials
- Microsoft Azure AI Document Intelligence. View Credentials