TEMIRLAN KDYRKHAN

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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*

SKILLS

- Problem Solving, Data Analysis, LLM, Data Mining, Big Class Imbalance Classification, Python, TensorFlow, PyTorch, GCP, Azure, C++, SQL, Java, Spring Core, Kotlin, GIT, REST API, SQL, 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. 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. Link.

Custom Trading Indicator for MT5 | *MQL5, MetaEditor, Technical Analysis*
- Designed and implemented a custom trading indicator for MetaTrader 5 based on smart money concepts and order block logic. Used historical data to optimize signal logic, achieving a 70% win rate in backtest over 500+ trades.

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**. Link.

Dialogflow CX chatbot | *Dialogflow CX, Google Cloud Storage, Vertex AI, Python and Google APIs*
- Designed **Dialogflow CX** chatbot about Romeo and Juliet book with citation-rich responses. Enabled **voice-based interaction** with a phone gateway for accessibility. **+1 (470) 795-3250**

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