Yeraly Gainulla

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eraly-ml.github.io | GitHub: Eraly-ml | HuggingFace: Eraly-ml

Aktobe, Kazakhstan

OBJECTIVE

Motivated high school student in machine learning, computer vision, and natural language processing. Seeking opportunities to contribute to innovative AI projects and further develop expertise in ML/DL.

EDUCATION

- **Aqbobek Lyceum School** *Expected Graduation: 2027*
  Computer Science / Mathematics Track Aktobe, Kazakhstan

SKILLS

- **Frameworks Tools:** PyTorch, PyTorch Lightning, Transformers
- **Machine Learning Areas:** NLP, CV, RL

PROJECTS

- **KazBERT** 2025
  Tools: BERT, Python, Hugging Face Transformers Hugging Face
  ○ Developed a BERT-based model fine-tuned for Kazakh language tasks using Masked Language Modeling on a trilingual corpus (Kazakh, Russian, English). (+1000 downloads on Hugging Face)

- **KazBERT-Duplicates** 2025
  Tools: BERT, Python, Hugging Face Transformers Hugging Face
  ○ Kazakh language model fine-tuned to classify types of textual duplication between sentence pairs. It predicts whether two sentences are exact, partial, paraphrase, or contextual duplicates.

- **Skin-AI** 2024 - 2025
  Tools: ConvNeXt, PyTorch, PyTorch Lightning Hugging Face
  ○ Implemented a ConvNeXt-based deep learning model for skin disease classification, optimized with PyTorch Lightning. (Second place in Republican project competition.)

- **YOLOv5 for Smoke Detection** 2024 - 2025
  Tools: YOLOv5, Python, Telegram Bot API GitHub
  ○ Created a real-time smoke detection system using a custom-trained YOLOv5 model, which sends alerts with annotated frames to a Telegram chat upon detection. (First place in regional project competition)

PUBLICATIONS

- **KazBERT: A Custom BERT Model for the Kazakh Language**. Detailed the development of a BERT-based model tailored for the Kazakh language, including corpus details, architecture, and performance metrics.

HONORS AND AWARDS

- **Selected Participant, NU Summer Research Program** *2025*
  Nazarbayev University
  ○ Research project "Cross-kingdom virtual cells as an Artificial Intelligence-based architecture for predictive biological modeling: animal, plant and microbial systems" under the supervision of Prof. Xie (NU).

LEADERSHIP EXPERIENCE / ACTIVITIES

○
  Resident at Aktobe IT Hub *2025 - Present*
  Aktobe IT Hub
  ∗ Engaged in collaborative tech projects and workshops.

PROFESSIONAL MEMBERSHIPS / COMMUNITY INVOLVEMENT

- ○ **Active Member of the ML/DL Community** *2024 - Present*
  ∗ Participated in discussions, code reviews, and knowledge sharing sessions.

ADDITIONAL INFORMATION

Languages: English (B2), Kazakh (Native), Russian (Fluent)

Interests: Machine Learning, Deep Learning, Computer Vision, Natural Language Processing