

# Yeraly Gainulla

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[eraly-ml.github.io](https://eraly-ml.github.io) | [GitHub: Eraly-ml](https://github.com/eraly-ml) | [HuggingFace: Eraly-ml](https://huggingface.co/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
  - Led research project “AI in Chinese and Kazakh Herbal Medicine” under the supervision of Prof. Xie (MBZUAI); presented findings at closing symposium.

## 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