Eraly Gainulla

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Aktobe, Kazakhstan

OBJECTIVE

Motivated high school student with a strong foundation 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

- **Smart Bilim School** *Expected Graduation: 2027*
  Computer Science / Mathematics Track Aktobe, Kazakhstan

SKILLS

- **Programming Languages:** Python, SQL
- **Frameworks Tools:** PyTorch, PyTorch Lightning, Hugging Face Transformers, YOLOv5, OpenCV
- **Machine Learning Areas:** Supervised Learning, Transfer Learning, NLP, Computer Vision
- **Utilities Version Control:** Git, Jupyter Notebook, Telegram Bot API

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).

- **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.

- **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.

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

- **Presenter at Scientific Research Defense** *2025*
  Event at Smart Bilim School
  - Presented the Skin-AI project, showcasing its development and impact.

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