Nurzhanov Beket

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EDUCATION

Suleyman Dimerel University   Almaty, Kazakhstan
Bachelor of Information Systems   *Sept. 2023 – Jun 2027*

EXPERIENCE

Machine Learning Engineer   Aug 2024 – Present
ICT Labs   *Hybrid, Almaty, Kazakhstan*

- Fine-tuned and deployed Diff-HierVC voice models for voice analysis, including classification, recognition, and synthesis, to solve business problems and optimize company processes.
- Collected and annotated russian/kazakh audio datasets for speech recognition tasks.
- Developed and implemented raw audio preprocessing functions to minimize noise and improve audio quality.
- Created Restful API for models with FastAPI.
- Created voice preprocessing method for automation.

SKILLS

Language/Tools: Python, Git, GitHub, Visual Studio Code, Jupyter Notebook, Power BI, Excel, Docker, FastAPI

Libraries: Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn, Tensorflow/Keras, PyTorch, NLTK, SciPy, Transformers, HuggingFace

Database: PostgreSQL, MSSQL, MySQL

Communication: English (B2), Russian (C1), Kazakh (Native)

PROJECTS

Bank Churn Prediction

Developed a model to predict bank customer churn using EDA, feature engineering, preprocessing, and LightGBM with Optuna, achieving an F1 score of 0.89.

Payday Loan Default Prediction

Developed a predictive model for payday loan default using a credit bureau dataset of 73,420 clients. The project involved data preprocessing, feature engineering, and model training with LightGBM, Random Forest, and XGBoost. The model achieved a ROC AUC score of 0.9006.

Hotel Booking Project

Developed a hotel booking system with JWT-based user authentication and authorization, integrated with PostgreSQL for data storage and Docker for containerization. The system includes features like hotel data retrieval, user preferences filtering, and secure booking management.