Ademi Zhanuzakova

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Education

Bachelor of Science — **Nazarbayev University** — *Astana, Kazakhstan* — **08/2023 - Current**

- Major in Computer Science

Projects

• **Forecasting customer churn:** Developed predictive models for customer churn using Decision Tree, Random Forest, AdaBoost, and Gradient Boosting algorithms, achieving 83% F1-score on a mid-sized dataset. **(03/2024)**

• **Text movie review classification:** constructed a pipeline for text movie review classification, integrating CountVectorizer and TF-IDF Vectorizer with Multinomial Naive Bayes (MultinomialNB) and Linear Support Vector Classifier (LinearSVC) models. **(03/2024)**

• **App for people with disabilities:** created a React Native mobile application with integrated maps functionality and location search capabilities. Implemented a backend system using Node.js and Express.js, enabling CRUD operations on a MySQL database via RESTful API endpoints for managing user data. Enhanced security and functionality through middleware for JSON parsing and CORS handling. Utilized hooks, including useState and useEffect to manage state, handle side effects, fetched location data from external APIs. **(12/2023)**

Courses

- **Python for Machine Learning & Data Science Masterclass:** completed several projects where applied algorithms, including linear regression, support vector machines, logistic regression, KNN, Decision Tree, Random Forests, Boosting Methods, Naive Bayes, K-Means Clustering, Hierarchical Clustering, DBSCAN, PCA. gained skill of feature engineering on real world case studies and evaluation metrics of model performance, deploying machine learning models as interactive APIs.
- **Stanford CS229: Machine Learning Course:** a machine learning course led by Andrew Ng covering reinforcement learning, adaptive control, supervised and unsupervised learning, including topics such as clustering, dimensionality reduction, parametric/non-parametric learning, neural networks, and kernel methods.
- HarvardX STAT110x: Introduction to Probability
- UTAustinX: Linear Algebra
- Essential Statistics for Data Science

Technical Skills

- **Languages**: Python, C, C++, JavaScript
- **Machine learning skills:** Numpy, Pandas, Matplotlib, Scikit-learn, Tensorflow, Keras
- **Backend**: Node.js, Express.js
- **Frontend**: React
- **Clouds & Databases**: MySQL
- **Developer Tools**: Postman, GitHub