Danial Baizak

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EDUCATION

University of Milan/Pavia	Milan, IT
Bachelor of Science in Artificial Intelligence, GPA: 3.44/4.0	*Oct 2023 – June 2026*

EXPERIENCE

iOS and Python Developer	Almaty, KZ
nFactorial Incubator	*May 2023 – Aug 2023*

- Selected as one of 75 participants from a pool of 4100+ applications, representing a rate of approximately 1.8%
- Developed an iOS application using Swift, enabling real-time tracking of individuals and providing a contactless way to report life-threatening situations, addressing violence-related issues and promoting personal safety
- Adopted the Model-View-ViewModel pattern, reducing the codebase by 50% and speeding up deployment by 35%
- Implemented a REST API using the FastAPI framework with MongoDB as the data storage solution
- Utilized Docker for backend deployment and configured the application for a cloud environment

PROJECTS

Binary Classification Challenge | *Pandas, Seaborn, Scikit-Learn, Catboost*	Oct 2024

- Developed a machine learning model to predict binary outcomes using a dataset with over 4000 records
- Processed the dataset through feature normalization and one-hot encoding
- Evaluated model performance using the ROC-AUC metric, achieving a score of 85.4% on the training set
- Applied gradient boosting and CatBoost algorithm, boosting model accuracy to 87.4%
- Tested logistic regression and random forest models, achieving a final accuracy of 82.9% on the validating set

BudgetTracker | *Python, Django, Aiogram 3, PostgreSQL, Docker*	Nov 2023

- Created an expense tracking system that includes a Telegram bot using Aiogram 3
- Engineered a backend API service using Django and Django REST Framework, employing the MTV architecture

Twitter Clone | *Python, FastAPI, MongoDB, AWS S3, Docker*	June 2023

- Engineered a simplified backend service for Twitter-clone application using FastAPI framework
- Designed a REST API for CRUD operations and utilized AWS S3 for image storing
- Integrated JWT to manage user sessions and ensure secure access to protected resources

HONOURS AND AWARDS

Infomatrix-Asia, Silver Medal | *Kotlin, Python, TensorFlow*	June 2022

- Led a 3-member team in a programming competition with over 50 teams from 5 different countries
- Designed a mobile application in Kotlin with a local MySQL database for real-time data storage and retrieval
- Trained a convolutional neural network using TensorFlow for speech-to-text functionality, achieving 96% accuracy
- Deployed on a Django backend for real-time audio transcription in the mobile app, achieving latency under 650 ms

PUBLICATIONS

Large Hadron Collider - the salvation of modern physics | *Beyond Curriculum*	Jan 2021

CERTIFICATIONS

Algorithm Training 5.0 (26/40 problems solved) | *Young & Yandex*	March 2024
Introduction to Data Science and Machine Learning | *Stepik.org*	Oct 2021

TECHNICAL SKILLS

Languages: Python, Swift, Kotlin, SQL
Technologies: Django, FastAPI, TensorFlow, Docker, MongoDB, PostgreSQL, Git, AWS
Libraries: Pandas, Scikit-learn, Matplotlib, Seaborn, XGBoost, CatBoost