MAKSYM GURZHIY

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SKILLS

https://github.com/MaksymGurzhiy/CourseWork
https://github.com/MaksymGurzhiy/Projects
https://github.com/MaksymGurzhiy/Certificates
https://github.com/MaksymGurzhiy/FitnessDiary

EXPERIENCE

Developed Java based REST APIs and webservices using Spring Security. Experience with PHP and "C" programming developing an application for a data registry.
Developed all Machine Learning and Deep Learning projects using Python, leveraging libraries such as NumPy, Pandas, Scikit-learn, TensorFlow, Keras, and PyTorch. Applied Python for data preprocessing, model development, training, evaluation, and visualization.

Database development experience in PostgreSQL, MySQL, Oracle Database. Developed a public transport route database with the capability to store the topological scheme of routes. Created document-oriented data models. Experience with JSON and XML.

Implementation and optimization of sorting algorithms: Iterative Merge Sort, Quicksort.
Search algorithms: Sequential search (Brute force), Boyer-Moore string-search.
Experience with hash tables, graph algorithms as well as usage of binary trees and Red-Black Trees.

Designed and trained machine learning models, including logistic regression and K-Nearest Neighbors (k-NN) to predict income.

Applied cross-validation and hyperparameter tuning to optimize model performance.

Applied clustering algorithms such as K-means and Agglomerative Clustering to segment data into groups based on similarities.

Evaluated clustering performance using Silhouette Score, Calinski-Harabasz Score, and Davies-Bouldin Score.

Designed and trained deep learning models using TensorFlow, including fully-connected, convolutional, and recurrent neural networks.

Implemented NLP tasks such as sentiment analysis and text generation using LSTM and Transformers (BERT, GPT).

Applied techniques like transfer learning, data augmentation, regularization, and Batch Normalization to enhance model performance.

Conducted hyperparameter tuning and analyzed results for image classification and time-series forecasting.

Developed a fitness tracking Android application using Kotlin and Android Jetpack components.

Gained hands-on experience with Activity/Fragment lifecycle management, ViewModels, LiveData, and Room Database for local data storage.

Implemented a clean architecture with separation of concerns for better maintainability and scalability.

Practiced effective state handling, user input validation, and navigation using Jetpack Navigation Component.

Used SharedPreferences for storing user settings and tracking preferences.

EDUCATION

Odesa Polytechnic National University
2022 – Expected May 2026

Odesa Gymnasium No.1
2011 – 2022

Completed DigiJED-3: ML and DL courses with 96 and 99 points

LANGUAGE

English – B2 Russian – native

Ukrainian – native German – B1