

# Abdulxoliq Mirzayev

Machine Learning Engineer | Data Scientist

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Tashkent Uzbekistan

## EXPERIENCE

### STT Model (Speech to text )

- This project focuses on Uzbek speech-to-text conversion and optimization. A Gradio-based interface has been implemented, and the project is uploaded to GitHub with the source code. Link: [Github](#)

### NER (Named-entity recognition )

- This project focuses on developing and optimizing a Named Entity Recognition (NER) model for the Uzbek language. It utilizes Hugging Face datasets for entity labeling, fine-tuning, and evaluation. The project is uploaded to GitHub with the source code. Link: [Github](#)

### Predicting Prices in Financial Markets

- This project focuses on predicting USD/CHF exchange rates using a Machine Learning model. Historical price data is processed, moving averages (MA 10, 50) are calculated, and future price predictions are made using a Random Forest Regression model. Link: [Github](#)

### Anomaly-Detection-and-Energy-Optimization-System

- This project aims to monitor equipment performance and optimize energy consumption in manufacturing using AI-driven anomaly detection. The Isolation Forest model is utilized to detect anomalies in energy usage and machine operation, providing predictive maintenance recommendations. A Gradio-based interface allows users to visualize real-time analysis results.  
Link: [Github](#)

## EDUCATION

- Mohirdev 2023 - 2024**
  - Artificial Intelligence and | Data Science
  - Full Stack Python
- PDP Academy 2022 - 2023**
  - Backend Java Developer
- Coursera 2024 - 2025**
  - Machine Learning Specialization

## CERTIFICATES

**Mohirdev:**  
Artificial Intelligence | Data Science 2024

**PDP Academy:**  
Java Backend | C++ (Basic)

## HARD SKILLS

- Language:** Python
- Data Science :**
  - Data Collation
  - Data Analysis
  - Data Visualization
- Machine Learning:**
  - Machine Learning
  - Deep Learning
  - NLP
- DataBases:** PostgreSQL
- Frameworks - Libraries:**
  - Pandas
  - NumPy
  - Matplotlib
  - Seaborn
  - Scikit - Learn
  - Tensorflow/ Keras
  - Fast AI
  - Transformers

## AWARDS

- Finalist of 2024**
  - AI URBANTECH Hackathon

## LANGUAGES

- English - B1
- Arabic - B2
- Russian - A2
- Uzbek - Native