

# Taimoor Razi

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## SKILLS & INTERESTS

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- **Technical Skills:** Machine Learning; Deep Learning; Computer Vision, Natural Language Processing; Data Preprocessing & Wrangling; Data Visualization.
- **Technologies & tools:** Python (NumPy, Pandas, SciPy, Keras, TensorFlow); PostgreSQL; MongoDB, PyMongo; Git; AWS, Heroku, Django, Docker; Selenium; HTML, CSS, Bootstrap, JavaScript
- **Certifications:** Python CS50 (Harvard); Data Analyst Program (Accenture); Project Management (Google); Machine learning (Stanford); Deployment of ML models (Udemy); Data Structures/Algorithms (Colorado); Others
- **Interests:** Reading; Sports; Gym; Travelling

## WORK EXPERIENCE

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### MatchSet - Startup

Oct-December 2022

*Python Backend Developer – Testing Consultant*

*Labore, Pakistan*

- Conducted comprehensive unit testing and integration testing for a Python Django web application, utilizing various testing tools and frameworks to ensure the application's quality and reliability.
- Interacted with PostgreSQL, Celery, RabbitMQ, and Docker to implement full integration testing, effectively identifying and resolving multiple bugs and issues in the application.
- Collaborated closely with the development team to ensure timely and efficient delivery of high-quality code, leading to the successful deployment of the application in production.
- Created a responsive landing page using modern frontend tools, plugins, HTML5, CSS3, and JavaScript. Utilized Bootstrap for layout and styling, and integrated plugins like Font Awesome and AOS for enhanced visuals and interactivity. Collaborated with design team to translate visual designs into engaging user interfaces. Ensured cross-browser compatibility and optimized page performance.

### Data Glacier

July-Sep 2022

*Data Science Intern*

*Remote*

- Performed **Exploratory Data Analysis (EDA)** to help the client understand the cab market industry in the US to help them make the right investment decision as per their Go-to-Market(G2M) strategy. Communicated the insights to the stakeholders through a **PowerPoint** presentation.
- Lead a team of 4 people (collaborated on Github) and implemented an **end-to-end pipeline** (Data Ingestion, EDA, Model Preparation etc.) to help the client understand if a customer will buy their product or not by using the data of customers past interactions with financial institutions. Communicated the insights to the stakeholders through a **PowerPoint** presentation.

### Middle East Technical University

Jan-July 2022

*Machine Learning Researcher*

*Ankara, Turkey*

- Developed machine learning pipeline to predict conceptual costs for construction projects.
- Conducted a comprehensive study on various models used in the research including **Support Vector Regression, Neural Networks, Decision Trees, and Ensemble Methods**.
- Worked on 4 different datasets and managed to improve the accuracy of the models by using **Bootstrap aggregation or Bagging** by a significant amount to add value to the research literature.

### PROTA Engineering – Software

Oct– Dec 2020

*Software Developer Intern*

*Ankara, Turkey*

- Performed **unit testing** for new column design by using **c#** and collaborated with other team members on **github**.
- Input Data entries for the dimensions of steel cross-sections in PROTA structure Database.

### PROMER Consultancy Engineering.inc

July-August 2019

*Business Analyst Intern*

*Ankara, Turkey*

- Collaborated with the senior business strategist to identify areas of improvement related to customer feedback. I designed and executed a customer satisfaction survey based on **ISO10002** standards, which enabled us to gather valuable feedback and identify areas of improvement. My contributions helped the company to better understand customer needs and

preferences, leading to improved customer satisfaction and increased revenue.

## EDUCATION

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### WorldQuant University

*Applied Data Science Labs (8 projects)*

California, USA (online)

*Jan 2022 – Dec 2022*

### Middle East Technical University (High Honor)

*MSc Engineering Project Management*

*BSc Engineering*

Ankara, Turkey

*July 2023*

*July 2020*

## PROJECTS

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- **House Pricing Project:** Implemented an **end-to-end pipeline** to predict house prices in the research and development environment, prepared **production** code and **packaged** the model, deployed the app using Platform as a Service architecture in **Heroku** using **FastAPI** and automated the pipeline by Continuous Integration with **CircleCI**.
  - **Credit Card Fraud Detection:** Exploratory Data Analysis (**EDA**), Handled **Imbalanced Dataset**, Ensemble Methods
  - **Customer Segmentation in US:** Built **k-means** clustering model, conduct **feature selection**, reduced high dimensional data using **Principal Component Analysis (PCA)**, Designed, built, and deployed a **Dash web application**.
  - **A/B Testing (Email Campaign):** Built a **choropleth map** to show the distribution of ADSL students around the world using **MongoDB**, created a **custom Python class** to implement **ETL processes**, designed an experiment and analyze the results using a **chi-square test**, built an interactive web application that follows a **three-tiered design pattern**.
  - **Stock Market Forecasting in India:** Got data from a web API by making HTTP requests, Transformed and load data to a **SQL database** using custom Python classes, Calculated asset volatility and build a GARCH model to predict it, built my own **web API** and server to serve the model's predictions using **FastAPI**.
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