

# TURGUT OZAL GUVENC

## DATA SCIENTIST-FRONTEND DEVELOPER



 Male

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 Boston/USA

### CERTIFICATIONS

**08.2023 - 10.2023:**

Build Advanced GANs  
Online Learning-Coursera

**06.2023 - 08.2023:**

SQL for Data Professionals  
Online Learning-CodeBasics

**05.2023 - 08.2023:**

Build Advanced GANs  
Online Learning-Coursera

**05.2023 - 08.2023:**

Build Basic GANs  
Online Learning-Coursera

**03.2022 - 04.2023:**

PowerBI Data Analytics  
Online Learning-CodeBasics

**06.2022 - 04.2023:**

Deep Learning Specialization  
Online Learning-Coursera

**11.2022 - 01.2023:**

Convolutional Neural Networks  
Online Learning-Coursera

**10.2022 - 11.2022:**

Structuring Machine Learning Projects  
Online Learning-Coursera

### EDUCATION

#### ● Massachusetts Institute of Technology(MIT) / Cambridge-USA

Micro-master Degree in Data Science

2023 - Present

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#### ● Marmara University / Istanbul-Turkey

Bachelor's degree in Economics

Sep 2022 - Jun 2016

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### WORK EXPERIENCE

#### ● Vakifbank

Position: Data Analyst

2018 - 2021

- Vakifbank is one of the leading multi-specialist banks in Turkey and ranked second as the largest bank in the country.

- My Tasks:

\* I utilized SQL to efficiently extract and organize data from databases, enabling robust evaluation of loanviability and identification of loans at risk of default. I developed advanced techniques and intuitive dashboardsto derive insightful analytics in agricultural and risk management for the bank.

\* I automated manual Excel processes into SQL workflows, leading to a remarkable 25% reduction in report and dashboard delivery time, significantly improving business operations.

\* I created comprehensive reports, and dynamic, interactive dashboards, and conducted impactful KPI analysis forcredit and credit card sales teams, providing valuable guidance, aiding in achieving targets, and identifyingcreditworthy individuals. I responded promptly to ad-hoc report requests, ensuring timely and accuratedelivery of actionable insights and supporting data-driven actions for effective strategy execution.

\* I actively participated in testing and maintenance of the segment-based interest APR recommendationalgorithm, ensuring its accuracy and efficiency in delivering optimized solutions.

\* I improved business processes by doing systematization of manual work, preparing business unit reports, making Ad-Hoc report requests, and developing KPI reports,

\* I performed descriptive and predictive data analysis, reports, visualizations, and dashboards with PowerBI for different departments,

\* I tested segments and maintained the interest rate recommendation algorithm using SAS programming Language.

## 08.2022 - 10.2022:

Improving Deep Neural Networks:  
Hyperparameter Tuning, and Optimization  
Online Learning-Coursera

## 06.2022 - 08.2022: Neural Networks and

Deep Learning  
Online Learning-Coursera

## 01.2022 - 06.2023:

Probability - The Science of Uncertainty  
and Data  
Massachusetts Institute of  
Technology(MIT) / Cambridge-USA

## 12.2021 - 06.2022:

Data Science and Machine Learning  
Bootcamp(300 Hours)  
Bootcamp - VBO Data Science School

## 08.2021 - 12.2021:

Data Science and Machine Learning  
Online Learning-Udemy

## 01.2021 - 06.2021:

Complete Python Bootcamp From Zero to  
Hero  
Online Learning-Udemy

## REPOSITORIES:

### Data Science:

<https://www.kaggle.com/turgutguvenc>

### GitHub:

<https://github.com/turgutguvenc>

### Portfolio:

[https://turgutguvenc.github.io/turgutguvenc\\_portfolio\\_website/](https://turgutguvenc.github.io/turgutguvenc_portfolio_website/)

## PROJECTS

----- Frontend Development Projects -----

1. Personal Website with Angular
2. Product Sale Website with Angular and ASPNET Core

----- Data Science and ML Projects -----

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1. Business Insight 360 with PowerBI
2. Customer Churn Analysis
3. Data Modeling with Apache Cassandra
4. House Price Prediction with Multiple Machine Learning Models
5. Time Series Analysis for Stock Market
6. Sign Language Detection
7. Neural Machine Translation

## ● Balik Sofrasi Fishing Restaurant

Position: Co-founder

2014 - 2018

- I founded a seafood restaurant with my business partner, located in Tekirdağ, on the western coast of Turkey,

- I ran a wholesale business selling fresh and frozen fish to 8 different cities in Turkey.

## SKILLS

### ● Frontend Development

Frontend with React

2022 - Current

Technologies: HTML, CSS, Bootstrap, JavaScript, React

### ● Machine Learning

Machine Learning Model Training  
and Future Predictions

2018 - Current

Supervised Machine Learning Algorithms for Regression and Classification Problems, Unsupervised Machine Learning for Clustering and Association Problems in every type of Business and Organizational Goals

Libraries: Scikit-Learn, Scipy, NLTK

### ● Data Science and Analysis

Exploratory and Statistical Data  
Analysis

2018 - Current

I am well-versed in exploratory and statistical data analysis. I can efficiently use libraries such as Pandas, Numpy, Scipy, Matplotlib, Seaborn, Power BI, SAS, PySpark, Databricks, and Advanced Excel, enabling me to offer comprehensive data insights.

Libraries: Pandas, Numpy, Scipy, Matplotlib, Seaborn, Power BI, SAS, PySpark, Databricks, Advanced Excel.

### ● Deep Learning

Deep Learning Model Training and  
Future Predictions

2022 - Current

1. Artificial Neural Networks: Regression and Classification Problems for every kind of business and organizational problems.

2. Recurrent Neural Networks: Image captioning, time-series analysis, natural language processing, handwriting recognition, and machine translation.

3. Convolutional Neural Networks: Image Classification and Recognitions in computer vision problems.

4. Semantic segmentations, Transfer Learning, Natural Language Processing(NLP)

Libraries: Tensorflow, Keras, NLTK. PyTorch,

### ● Computer Vision

Deriving meaningful information from  
digital images, videos and other visual  
inputs

2022 - Current

1. OpenCV: Developing real-time computer vision applications.

8. Customer Life Time Prediction  
9. Data Modeling withSQL  
10. RFM Analysis  
11. Association RuleRecommender,  
12. Content and User Based  
Recommender,  
13. A/B Testing  
14. Transfer Learning with MobileNetV2  
15. Autonomous Driving - Car  
Detectionwith YOLO  
16. Image Segmentation with U-Net  
17. Face Detection VGG-16  
18. Language Modeling LSTM; NLP &  
WordEmbeddings  
19. Trigger Word Detection  
20. Named-Entity Recognition with  
Generative AI

2 . Convolutional Neural Networks: Object Detection, Image Classification  
and Recognition in computer vision problems.

Libraries: OpenCV, Tensorflow, Keras

## ● **Software Development**

Backend and Frontend Development:

2022 - Current

1. Backend:Python, Object Oriented Programming

2. Tools: Git, Github, SQL, JIRA, Docker, Apache Cassandra,AWS