BULENT KARADENIZ

Data Analyst

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Summary

I am a passionate data science with a educational background. I hold a bachelor's degree in biology and have also earned a master's degree in the same field. During my academic journey, I had the privilege of lecturing on biology at high schools, further enhancing my communication and teaching skills.
I was pursuing a PhD program in biomedical science, where I gained valuable insights into medical devices, data analysis, and interpretation. Although my research journey was cut short, it fueled my curiosity for data science. I seized the opportunity to expand my knowledge by enrolling in basic MATLAB programming and statistics courses.
My thirst for learning led me to explore various online courses and webinars, both paid and free, to broaden my expertise in data science. Additionally, I have 13 months of remote work experience at an e-commerce company specializing in online sales and dropshipping. During my tenure, I successfully completed assigned tasks and collaborated effectively within a team.
I am highly adaptable, driven to stay updated with the latest industry trends, and eager to contribute to the field of data science. I am enthusiastic about joining a dynamic team and participating in groundbreaking data science projects.

Work Experience

- Data Analyst (September 2022 - October 2023) Remote - Intern

OneAMZ E-Commerce Dropshipping Company / New Jersey, USA - Website : https://oneamz.com/

Project Details

- **EDA (Explonatory Data Analysis) :**

During this period, data sets of OneAMZ Company in excel and csv formats were used. These data sets include the data of Amzon sellers using the software and the products, orders, page visits, revenue, etc. of three stores that the company operates and sells to different countries through Amzon.EDA (Exploratory Data Analysis) was carried out on these data sets using python libraries. The data sets were preprocessed and manipulated to make them suitable for analysis.

- **PowerBI & Tableu Visualization:**

We completed my analyses in 4 phases: **revenue analysis, product analysis, page interaction analysis, seller analysis.** In each phase of these analyses, I made data visualizations with PowerBI and Tableau programs. I obtained important insights for the company. I presented these visualizations at the end of each phase with dashboard.

- **Buybox Percentage Forecasting (Product Analysis)**

In this study, we predicted the probability of the products offered for sale in the stores to enter the buybox box according to their prices. Our model was able to predict with a score of 66 % due to the limited data available.

- **Product Amazon Choice Estimation (Product Analysis)**

The purpose of this study is to predict whether a product offered for sale will meet Amazon's Choice criteria.After the model was established, the success of predicting whether a product would be Choice or not was achieved with a score of 65 %. However, the score could not be improved despite various parameter settings.

- **Seller Clustering**
- **Seller Churn Prediction Analysis:**
- **Computer Vision : Object Detection with Roboflow, YoloV8: (Product Analysis)**

In this study, the pictures of the products in the store Keepa report were downloaded and analysed and it was seen that the main category information and the product did not match. We thought that this was due to the seller's own preference. In order to correct this, we suggested that a CV model that guides the sellers can be added as a module to their sites. For this reason, we built a CV model using the YoloV8 library and Roboflow application from the images in the existing data set. Our model identified the category of the product image entered with a score of 85% for 3 main categories. Only with demo version 1, we proved that the company can support its sellers in this regard.

- **NLP : Sentiment analysis : (Page interaction analysis)**

The aim of this study is to estimate the satisfaction and dissatisfaction of the sellers with the training and support they received from OneAMZ by using the information in the comment texts.

- **Deploy Works with Streamlit**
  - Sellller Churn Predict : Click App
  - Sentiment analysis : Click App
  - Seller Guide - Product Category Finder : Click App

- Logistic Officer 2021 - 2022

ITT International Logistics Company / Gebze / Kocaeli / Turkey - Website : https://www.itt.com.tr/
Collecting incoming commercial vehicle information and product information using Excel, processing them into the relevant programme.

- Salesperson 2019 - 2021

Yapiset Incorporated Company / Gebze / Kocaeli / Turkey
Sales of products in the market, order, stock status, inventory record, daily turnover, Excel calculation of daily turnover.

- Biology Teacher 2002 - 2018

Private Education Companies / Istanbul - Kocaeli

Personel Projects

- Soldier Race Prediction
  - Developed a machine learning model using Logistic Regression, Support Vector Machine, XGBoost, Random Forest algorithms to predict soldier race.
  - Conducted feature engineering and performed data preprocessing to improve model accuracy.
  - Achieved a predictive accuracy of 91% with logistic regression.
- Clustering Analysis Customers Segmentation
  - Utilized K-Means clustering for cluster analysis with an unsupervised learning machine learning method to observe the distribution of customers.
  - Performed exploratory data analysis and visualizations to understand underlying trends.
  - Successfully clustered annual income spending score.
- Deep Learning - Computer Vision - Object Detection : Human Iris Color Detection
  - Using YoloV8 and Roboflow, I was able to detect the color of the iris of the human eye with 85% success over photo or video. Click : Roboflow APİ

Technical Skills

- Python
  - Numpy
  - Pandas
  - Scikit-learn
- MATLAB
- SQL
- Data Visualization
  - Matplotlib
  - Seaborn
  - Tableau
  - PowerBI
- Version control
  - Git
  - Github
- ClickUp
- Data Manipulation
  - Excel
  - Data preprocessing
  - Data Cleaning
- Database management
  - MySQL
  - PostgreSQL
- Statistics analysis
  - Hypothesis testing
  - a/b Testing
  - Time Series analaysis
- Data warehousing
  - Amazon redshift
  - Google Bigquey
- Data Minning
- Deep Learning Framework
  - Tensorflow
  - Keras
  - Pytorch
- Computer Vision
  - Pillow
  - Yolo
  - OpenCV
  - Scikit İmage
  - Roboflow
- NLP
  - NLTK
  - Spacy
- Image Processing
- Machine Learning
  - Regression
  - Classification
  - Clustering
  - Neural Network
  - Time Series Analaysis
- Streamlit
- Heroku
- Docker
- AWS - EC2
- Cloud platforms
  - Aws
  - Azure
  - Gcp

Soft Skills

- Responsible
- Collaborative
- Adaptability
- Desire to learn
- Storytelling
- Mission Driven
- Strong Communication
- Agile Methodologies
- Languages:
  - Turkish (Native)
  - English (Intermediate)

Education

2022 - Present — Department of Chemistry PhD. Student (Active) — Gebze /Kocaeli /Turkey
Gebze Technical University
I came back with a student amnesty. Computitional chemistry, Machine Learning

2022 - Present — Biomedical Science PhD. Student (Passive) — Istanbul / Turkey
Istanbul Cerrahpasa University/Biomedical Engineering
I came back with a student amnesty. ML, DL,Image processing, Computer Vision

2009 - 2011 — Master of Science — Istanbul / Turkey
Fatih University / Biology Molecular biology, SCE, Toxicity

1995 - 2000 — Bachelor of Science — Antalya / Turkey
Akdeniz University / Biology

Certification / Courses

- Data Science Online Course / 2022- 2023 / TecproEduaction New York City, NY USA
- OneAMZ Certificate of Internship /Remote/CERTIFICATE NO: 2023/2-DS004 /DATE: OCTOBER 07, 2023
- Introduction to Data Analysis / Spring Semester 2023 / Science Faculty / Gebze Technical University
- Data Mining, Deep Learning and Applications /Fall Semester 2023-24 / Computer Eng. Dep. / Gebze Technical University
- English courses : Dialogue English Course Bakirkoy / Istanbul 2010 (6 mounths) - World Academy English Course /Online / USA 2023 (2 mounths) - Oxford House - Free English Courses / Online / 2023 (6 mounths)

Publications

- Genotoxic and cytotoxic effects of storax in vitro Bulent Karadeniz, Zeynep Ulker and Lokman Alpsoy, Toxicol Ind Health published online 8 December 2011, DOI: 10.1177/0748233711428642 http://tih.sagepub.com/content/early/2011/12/01/0748233711428642