UMAR IGAN

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PROFILE

As a Data Scientist I am skilled in both technical and communication aspects of the role. I am able to effectively **communicate complex findings** to a variety of audiences, including non- technical stakeholders. I am mainly focusing on driving AI&Data solution to production. I had built many interesting application and done experiments. I am combining **Engineering** and **Research** mindset during building **AI powered application** to build more **scaleble**, **unbiased** and **reproducible** applications.

EXPERIENCE

Data Scientist, gokidly.com, Istanbul Turkey, 2023/01 - 2023/07

• Product ranking algorithm with weighted product features for usage in digital marketing, brand marketing and social media campaigns.

• Built Content based Recommendation for products in app using TFIDF to tokenize contents, KMeans to cluster them and then used user history to reccomend most liked cluster.

• Built and maintaining of ETL and Data warehouse using Python, Bigquery and DBT.

• KPI reports with Tablaeu and Google Data Studio.

• Contribution to Churn Prediction project for multiple scenario in customer funnel.

Data Scientist, Tapu.com, Istanbul Turkey, 2019/09 - 2023/01

• Contributed to recommendation algorithm for products based on euclidean distance using multiple features by creating flask application.

• I built an end-to-end text classification model. The system achieved an accuracy of 82% on the classification task. It uses the NLP and Flask modules to preprocess and classify input text, respectively. The system returns the probabilities for each of the 3 classes, allowing users to see how confident the classifier is in its predictions.

• Built a hybrid regression model that predict house prices with good accuracy, I ensembled multiple regression models, build an automated hyperparameter pipeline to refresh the model's parameter.

• Developed a rule-based model using Python to rank products based on multiple metrics.

• Build end to end Computer Vision OCR system for document detection during uploading documents to CRM.

EDUCATION

Koc University, Data Science, Master Degree, 2023-2025
University of Gaziantep, Engineering of Physics, Bachelor's Degree, 2011-2018

SKILLS

Experiences: Machine Learning, MLOps, NLP, Computer Vision, Deep Learning, Data Engineering, Data Visualization, Databases, Vector Databases,

Tools: Python, Qdrant, Langchain,Transformers, Pytorch, Flask, Streamilt, Mysql, PostreSQL, MongoDB, Bigquery, Github, CI/CD, Docker, AWS, GCP, SAS Viya, Tablaeu.

Projects

Stroke Detector with Keras CNN Architecture

• With collabration of a CS student and a doctor from Banghlades, I develop an Image Classifier for addressing stroke people based on face expression using open source dataset.

• I used datasets from kaggle, Dataset1 and Dataset2

• Here is the Notebook.

• App: https://stroke.streamlit.app/

AssistAI Application with Langchain and Meta LLama2-7B

• I developed an Application using cutting edge NLP Algorithms to ask question to PDF, CSV and TXT Files.

• I used langchain as pipeline and Meta LLama2-7B language model for this purpose

• Here is the baseline Jupyter Notebook

• App: https://huggingface.co/spaces/umarigan/AssistAI

Finum, Quantitative Trading Research Platform

• I builded an trading analytics for equities platform to get most of investments

• I used yfinance for stock data source, add trading signals using Probabilistic approaches, machine Learning and technical indicators. I also added populer portfolio optimization methods.

• App: https://finumapp.streamlit.app/

ActionClassifier, Human action(running, eating, sitting, etc.) classifying from Images

• I build an Image classifier using Human Action Dataset

• I used Vision Transformers for embedding image dataset and Vector Database for Image searching&Classiying. It is fast and very accurate for some classes.

• App: https://actionclassifier.streamlit.app/

Certificates

Deep Learning Fundamentals by Lightning.AI

• An extended Deep Learning course that covers from Logistic Regression to Large Language Models and Computer Vision.

Machine Learning for Business Decision Optimization by Weights&Biases

• A course on how to build Machine Learning for business decision
Certificate: https://www.credential.net/907e4a8d-c622-4d92-91b0-d6e5982cee1c

DBT Fundamentals by DBT:

• DBT aka Data Building Tools is cloud based ETL tool for data engineers.

• Certificate: https://www.credential.net/d2875538-53b7-47cc-b3b6-240c00c6d862#gs.465wvn

McKinsey Forward Program by McKinsey

• A wide course on approach to problem-solving, become more effective and influential communicators and develop adaptable and resilient mindsets and habits.

• Certificate: https://www.credly.com/badges/bfe366cf-2503-4914-ba70-0b9f7504857f/linked_in_profile