TURING

Melih

Turkey· Matches your timezone (8 AM to 12 PM PST or EST)

Skilled team leader with a strong background in technical environments. Work well with a team to handle assignments and always ready to go beyond basic assignments. Quick learner with good computer abilities. Ability to solve problems by constructing a pipeline requiring an advanced technical level with algorithmic thinking. Well-experienced in various fields of computer science.

Years of exp.

3 year(s) of experience

Technical Skills

You will be matched for these following skills:

Skill	Years of experience
Keras2 years	2 years
Python6 years	6 years
PyTorch1 year	1 year
Deep Learning6 years	6 years
Machine Learning6 years	6 years
Computer Vision6 years	6 years
Artificial Neural Networks6 years	6 years
Python for Data Science6 years	6 years
Artificial Intelligence1 year	1 year
LLM1 year	1 year

Additional skills:

AWS | 4 years · Pandas | 4 years · MySQL | 2 years
Jenkins | 1 year · Numpy | 5 years · MXNet | 1 year · C# | 1 year
MongoDB | 3 years · C++ | 2 years · Django | 1 year
Reinforcement Learning | 2 years · Scipy | 5 years · Flask | 3 years
HTML | 3 years · React Native | 2 years · Tensorflow | 2 years
CSS | 3 years · Photoshop | 1 year · GitLab | 6 years
Blockchain | 1 year · Git | 6 years · SQL | 1 year · React | 3 years
Docker | 3 years · GitHub | 6 years · Kotlin | 1 year · Java | 3 years
Flutter | 2 years · Typescript | 3 years · Node.js | 1 year
Data Analysis | 2 years · Data Engineering | 3 years
Data Engineer | 1 year · Amazon Redshift | 1 year
Blender | 3 years · Cloud | 3 years
Computer Science Fundamentals | 7 years
Algorithms and Data Structures | 7 years · Kubernetes | 1 year
SSH | 3 years · Load Balancing | 2 years · Firebase | 2 years
REST/RESTful APIs | 4 years · Linux | 4 years · Dart | 2 years
Agile | 3 years · AWS CLI | 4 years · Virtual Reality | 2 years
Deep Learning Algorithms | 6 years · Image Recognition | 4 years
Jupyter Notebooks | 5 years · HTTP | 4 years · Shopify | 2 years
Communication | 1 year · SaaS | 2 years · E-Commerce | 2 years
Optimization | 2 years · Chatbot | 1 year · EC2 | 1 year

Work History

VP of Engineering
Mova AI
December 2022 - Present
6 mos

Farley

Farley is a desktop application having a custom LLM model listening the real-time conversation between the customer and customer representative to generate suggestions.

When customer representative needs to use company related internal tool, Farley automatically displays the tool with an appropriate UI element or makes the needed API call without a need for the representative to search for those tools.
Farley aims to accelerate customer representatives to resolve customer's issues by providing insights and running workflow automation using custom LLMs.

LLM · PyTorch · Python · Python for Data Sci... · GitHub · Deep Learning Algo... · Linux · AWS · Flask · React

Senior Python Developer
Turing
November 2022 - Present
7 mos

Chatbot Application

This project aims to increase the robustness of LLM-based Chatbot Application which is created by the most famous company in this field. The pathway consists of preparing real conversations including challenging both real world and algorithmic tasks for the LLM to teach how to response like a human. Enabling a closed LLM to generate responses which cannot be distinguished with humans

Python · Python for Data Sci... · Jupyter Notebooks · Algorithms and Dat... · Computer Science ... · Scipy · Numpy · AWS CLI · Chatbot · LLM

Senior AI Engineer
Retrace
December 2021 - November 2022
11 mos

Retrace Project

• Trained custom object detection, object segmentation, and keypoint detection models for predicting key points, tooths, tooth fractures, and various features of the teeth on the big dataset.
• Prepared datasets and data loaders for making the dataset available for the custom model.
• Changed and modified loss functions and model architectures to get better accuracy.
• Trained the model on the Kubeflow to speed up the training.
• Used cometml to see the metrics of the training on the distributed platform.
• Prepared docker image to train the model on Kubeflow.
• Pytorch Elastic training on ECR.
Training an end-to-end detr-based tooth model to generate patient data by only looking at tooth x-ray data.

Artificial Intelligence · PyTorch · Docker · Kubernetes

Keypoint Detection

Custom key point detection model has been trained backed on custom tooth detection model on Kubernetes via Pytroch Elastic to provide detailed features to specific head models.
Internal model testings have been conducted in AWS with a single GPU ec2 instance.
The data is deployed in S3 bucket.
Each experiment result is visualized and documented in Jupyter notebooks.
Detecting important keypoints on each tooth to calculate tooth related metrics .

Kubernetes · EC2 · Jupyter Notebooks · AWS · PyTorch · Deep Learning Algo... · Computer Science ... · Algorithms and Dat... · Computer Vision · GitHub · Artificial Neural Net... · Kubernetes · EC2 · Jupyter Notebooks · AWS · GitHub · Computer Science ... · Computer Vision · PyTorch

Retrace Labs

Custom key point detection model has been trained backed on custom tooth detection model on Kubernetes via Pytroch Elastic to provide detailed features to specific head models.
Internal model testings have been conducted in AWS with a single GPU ec2 instance.
The data is deployed in S3 bucket.
Each experiment result is visualized and documented in Jupyter notebooks.
Detecting

Kubernetes · Jupyter Notebooks · EC2 · AWS

Cal Detection

Custom tooth cal distance regression model has been trained backed on custom tooth detection model on Kubernetes via Pytroch Elastic to provide detailed features to specific head models.
Internal model testings have been conducted in AWS with a single GPU ec2 instance.
The data is deployed in S3 bucket.
Each experiment result is visualized and documented in Jupyter notebooks.
Calculating tooth related distance metrics.

Kubernetes · EC2 · GitHub · PyTorch · Jupyter Notebooks · AWS · Computer Vision · Computer Science ...

Gradient Detection

Custom tooth gradient detection model has been trained backed on custom tooth detection model on Kubernetes via Pytroch Elastic to provide detailed features to specific head models.
Internal model testings have been conducted in AWS with a single GPU ec2 instance.
The data is deployed in S3 bucket.
Each experiment result is visualized and documented in Jupyter notebooks.
Creating gradient mask for each tooth to get the needed features for cal distance model.

Computer Science ... · Kubernetes · EC2 · Jupyter Notebooks · AWS · Computer Vision · GitHub · PyTorch

Chief Technology Officer
Virtual Try
November 2020 - December 2021
1 yrs 1 mos

Various Projects

• Created the whole architecture of the AR app.
• Coordinated work of internal teams and contractors improving company systems.
• Developed company technology strategies to support growth and risk management.
• Focused on scalability and adaptability of technology solutions to prepare for changing requirements.
• Managed a technical team of 9 to create a virtual try-on application for the e-commerce sites of clothing brands.
• Trained and deployed a deep neural network model on AWS for generating 3D human avatars from the side and front images with Pytorch.
• Prepared an optimization-based machine learning model to generate a 3D human avatar by entering measurements with Pytorch.
• Responsible for enhancing and accelerating the current simulation technology for simulating the 3D clothing models on avatars with Python.
• In charge of deploying the whole parts of the application on AWS with a scalable and optimized Flask application.
• Prepared a Blender addon for cleaning 3D garments 10X faster.
• Used Agisoft API to automate the 3D garment generation process from a set of preprocessed images by our deep learning-based segmentation model.
• Prepared a deep learning-based face transfer module from image to avatar in Tensorflow and Delaunay Triangulation.
• Prepared and implemented an image-based recommendation systems pipeline with Pytorch.
• Prepared a machine learning-based size estimation module from human images with Pytorch.
• Automated building for the whole system with Jenkins.
• Prepared AR application for shoes that can be used in Shopify.
• Prepared a VR application for clothing from videos.
Successfully developed and delivered bug-free projects within the initially established deadline.

AWS · Python · PyTorch · Jenkins · Flask · Shopify · Tensorflow · Machine Learning · Deep Learning · E-Commerce · Blender · Optimization

Virtual Try-On Application

SaaS-based Virtual Try-On application with recommendation engine for fashion brands.
Enabling fashion brands to show their garments on their customers without physically trying to decrease the returns and increase the sales.

Python · Computer Science ... · Algorithms and Dat... · Deep Learning Algo... · SaaS · Blender · REST/RESTful APIs · Flask

Machine Learning Engineer
Turk AI
July 2019 - November 2020
1 yrs 4 mos

Turk AI Projects

• Tested and recommended software improvements to guarantee strong functionality and optimization.
• Developed and directed software system testing and validation procedures.
• Used Tensorflow and Keras for testing the deep-learning modules.
• Determined system performance standards.
• Developed a machine-learning pulse counter module.
• Developed and tested age and gender prediction models in various datasets.
• Researched and benchmarked the state-of-the-art algorithms for the related contexts.
Creating computer vision based applications for defense industry.

Machine Learning · Deep Learning · Keras · Tensorflow · Computer Vision · Optimization

Machine Learning Engineer
Smart Alpha
February 2020 - October 2020
8 mos

Various Projects

• Collected top-view photos for humans to count the number of people on a bus.
• Trained a state-of-the-art object detection model to count the number of people in a bus with Pytorch.
• Trained and deployed an Object Detection model for predicting lung diseases from a lung ultrasound image.
• Optimized Regular/Irregular pleura detection model, and increased the mAP score from 29% to 85% Pytorch.
• Data labeling in AWS to train helper segmentation models to create a fully-capable object detection model.
The deliverables were sent according to the deadlines set.

Python · PyTorch · AWS · Computer Vision · GitHub

Machine Learning Researcher
Bilkent University
January 2019 - July 2019
6 mos

Object Detection on Drone Dataset

• Prepared an object detection dataset from a drone dataset using Pytorch.
• Trained and optimized YOLO v3 for the drone dataset using Pytorch.
• Benchmarked various one-stage and two-stage object detectors.
Research project conduced in Bilkent University

PyTorch · Machine Learning · Communication · Linux · Computer Vision · Computer Science ... · Python · Deep Learning · Artificial Neural Net...

Machine Learning Researcher
Bilkent University
September 2018 - December 2018
3 mos

Reinforcement learning model

• Implemented a reinforcement learning model with Python.
• Prepared a pipeline for autonomous cars with reinforcement learning and GANs.
• Interpreted research specifications and developed a work plan that satisfied requirements.
• Recorded findings by taking written notes and using appropriate software.
Research project conduced in Bilkent University

Python · Machine Learning · Reinforcement Lear...

Education

September 2015 - July 2020
Bilkent University - Ankara , Çankaya
Bachelor Of Science : Computer