Enver **Bashirov**

SOFTWARE ENGINEER · COMPUTER VISION ENGINEER

Padova, Italy

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Work Experience

GeoInference
Padova (Remote), Italy

SOFTWARE ENGINEER · COMPUTER VISION ENGINEER
Oct. 2024 - Nov. 2024

- Developed a remote client-server segmentation model using REST API and Flask in Python to identify distinct objects in a box
- Developed a detection algorithm for sawblade teeth using OpenCV in Python

MINTS
Padova, Italy

MACHINE LEARNING ENGINEER
Mar. 2020 - Mar. 2023

- Developed a distributed and multi-threaded edge computing server-client network using socket programming and TCP/IP on Python **[paper]**
- Implemented CNN, RNN (LSTM / GRU) and Autoencoder models for radar-based YOLOv3 for person tracking by using PyTorch **[code]**

Nokia Bell Labs
Espoo, Finland

PH.D. RESEARCHER · MACHINE LEARNING ENGINEER
May 2022 - Aug. 2022

- Developed a decision tree-based peak detection model for WiFi signals along with a preprocessing pipeline using sklearn, pandas and numpy

IMDEA Networks
Madrid, Spain

PH.D. RESEARCHER · MACHINE LEARNING ENGINEER
Jan. 2021 - Jun. 2021

- Designed a ML model for Human Activity Recogntion along with an algorithm for noise removal using TensorFlow and sklearn **[paper]**

EMU
Famagusta, Cyprus

SOFTWARE ENGINEER
Sep. 2018 - Jul. 2019

- Contributed to the front-end design of the university webpage with .NET, AngularJS, HTML5 and CSS3
- Contributed to the back-end features of the universities internal backbone with C#, .NET, MySQL, NodeJS, TypeScript and AngularJS

Education

University of Padova (UNIPD)
Padova, Italy

PH.D. IN INFORMATION AND COMMUNICATION TECHNOLOGY
Oct. 2019 - Oct. 2023

- **Thesis**: ML-driven Environment Sensing with millimeter-Wave radars
- Granted 3-year full scholarship as a part of **MINTS** research group in Marie Skłodowska-Curie Actions ITN H2020 (Grant no: 861222)

Eastern Mediterranean University (EMU)
Famagusta, Cyprus

M.SC. IN APPLIED MATHEMATICS AND COMPUTER SCIENCE
Sep. 2017 - Jul. 2019

- **Thesis**: Person-Dependant and Independant Facial Emotion Recognition on eNTERFACE, SAVEE and RML datasets using SVM and NN **[paper]**
- **Main Courses**: Distributed and Parallel Programming, Cryptography and Network Security, Artificial Intelligence, Decision Making

Bilkent University
Ankara, Turkey

B.SC. IN COMPUTER ENGINEERING
Sep. 2012 - Jul. 2017

- **Graduation Project**: NetWord: A social network based on text-based games developed with Android Studio and Google Firebase **[code]**
- **Main Courses**: Digital Design, Computer Organization, Operating Systems, Artificial Intelligence, Image Analysis, Computer Graphics

Publications

2023 ***RAPID: Retrofitting APs for Indoor human Detection and sensing***, IEEE Transactions on Mobile Computing

2022 ***RadNet: a testbed for mmwave RADar NETworks***, ACM CoNEXT

2021 ***Video-based person-dependent and person-independent facial emotion recognition***, Springer SIVP

Skills

Tools	Python · SQL · LaTeX · VSCode · Jupyter · AWS · Docker · Git · Bitbucket · Linux · C# · .NET · MySQL · TS
Packages	Numpy · Pandas · Scikit-Learn · Matplotlib · PyTorch · TensorFlow · socket · RestAPI · Flask · AngularJS
Techniques	Neural Networks · YOLO · DBSCAN · SVM · Kalman Filter · decision tree · k-means · PCA · micro-Doppler
Applications	Classification · Regression · Clustering · NLP · Object Detection · Activity Recognition · Data Science · Data Engineering (EDA)
Side Projects	Image Segmentation **[code]** LeetCode **[link]** Kaggle **[link]**
Languages	English (proficient **[IELTS 7.5]**) · Turkish (native) · Azerbaijani (native) · Russian (intermediate) · Italian (beginner)