

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

PH.D. RESEARCHER · MACHINE LEARNING RESEARCHER

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 RESEARCHER

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 RESEARCHER

Jan. 2021 - Jun. 2021

- Designed a ML model for Human Activity Recognition 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)