Onur Copur

MSc in Data Science

🌐 https://copuronur.github.io/

📍 Rome, Italy

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in /onurcopur

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About me

Data scientist with research interests in computer vision and NLP. Proficient in predictive modeling and data processing. Highly skilled in Python programming, MLOps and deep learning frameworks. Interested in Data Scientist, Machine Learning and Computer Vision Engineer positions.

Work Experience

Computer Vision Intern, Belgium
BARCO | March 2021 - October 2021

Developed an end-to-end deep learning-based system that detects the engagement level of a subject in a given video as part of my master's thesis. The model extracts features using CNNs and encodes the feature sequences with RNNs (specifically, Bi-LSTM).

Data Scientist, Turkey
Univera Computer Systems | May 2018 - August 2019

Created a time series forecasting tool for retail and tobacco producers with deep learning (RNNs) and machine learning algorithms (SVM, elastic net regression, and ARIMA). Moreover, developed a genetic algorithm-based periodic route optimization method to solve the routing problem of FMCG distributors.

Education

M.Sc. in Data Science
Sapienza University, Rome | September 2019 - October 2021

GPA: 110/110 - graduated with honors (magna cum laude)
Thesis: "Engagement Detection in e-Learning Environments"

B.Eng. in Industrial Engineering
Yasar University, Izmir | September 2015 - June 2019

GPA: 3.77/4 - graduated with honors (magna cum laude)
Thesis: "Periodic Route Optimization for FMCG Distributers"

Projects

Video Emotion Recognition
November 2021 - Present

Developing a multi-task deep learning model with triplet loss for emotion recognition in videos.

Video Pose Estimation
July 2021 - September 2021

Adversarial training of a temporal motion generator together with an attention-based motion discriminator.

Image Search Engine
September 2021 (2 week-long project)

In a Google Training Camp Competition, we developed an attention-based image captioning method that uses InceptionV3, which won the first place.

Object Detection
July 2020 (2 week-long project)

Landmark detection and population estimation with the help of satellite images.

Computer Skills

Programming Language:
Python, R, MATLAB, VBA, SQL, Java

Frameworks/Libraries:
PyTorch, TensorFlow, OpenCV, scikit-learn, pandas, NumPy

Other Software/Tools:
Git, Apache Hadoop, Spark, Docker, MongoDB, Neo4J, AWS

Language Skills

Turkish (Native)

English (Advanced)
TOEFL IBT 94/120

Italian (Beginner)

Publications

Nakip, M., Çopur, O. & Güzeliş, C. (2021). Comparative Study of Forecasting Models for COVID-19 Outbreak in Turkey, Innovations in Intelligent Systems and Applications Conference (ASYU), pp. 1-6.

Çopur, O. et al. (2020). Periodic Route Optimization for FMCG Distributors. In N. Durakbasa & M. Gençyılmaz (Eds.), Proceedings of the International Symposium for Production Research (ISPR) 2019. Springer.

References

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