Mikail Duzenli

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ABOUT ME

Double graduate with a major in data science experienced in both research and industry with high-responsibility assignments. Autonomy and problem-solving skills proven by successful results in recent experience or personal projects. Motivated to apply knowledge of machine learning to a meaningful project as a Data scientist.

WORK EXPERIENCE

Research internship in Machine Learning for medical images

Inria [04/2022 – 10/2022]

City: Gif-sur-Yvette

Country: France

• Studied state-of-the-art Deep Learning approaches to generate realistic data from simulated data: VAEs, GANs
• Proposed the appropriate solutions collaborating with the partner company's R&D team.
• Developed the chosen models in Python (TensorFlow) and tracked them with Git.
• Evaluation and analysis of results through meetings: the final result is a 10% boost in the performance of their product.
Developed skills: Python, Numpy, TensorFlow, Git, Docker, Linux

Computer vision engineer Research & Development internship

Safran Electronics & Defense [02/2021 – 08/2021]

City: Massy

Country: France

• Studied the multi-object tracking problems (MOT).
• Developed Kalman filters and related algorithms in MATLAB.
• Simulated synthetic scenarios to assess the developed methods then analyzed results on field data.
• Improved the results of the method by 33% by proposing the appropriate modifications.
Developed skills: Matlab

EDUCATION AND TRAINING

Master of Science (M.S.) - Artificial Intelligence (AI)

Paris Dauphine - PSL [09/2021 – 09/2022]

Address: 75016 Paris

https://www.lamsade.dauphine.fr/wp/iasd/

Field(s) of study: Artificial Intelligence (AI)

Courses: Machine learning, Deep learning, Reinforcement learning, Optimization, Advanced databases, Computer vision, NLP, Monte Carlo Tree search, and 3D point clouds.
Developed skills: Python, Numpy, Keras, TensorFlow, PyTorch, Scikit-learn, Pandas, Git, PySpark, SQL

Engineer's Degree - Math and Statistics

Télécom SudParis [09/2018 – 09/2021]

Address: 91000 Evry (France)

https://www.telecom-sudparis.eu/formation/modelisations-statistiques-et-applications/

Field(s) of study: Information and Communication Technologies

Relevant courses: Statistics, Machine learning, Deep learning, Signal processing, Data science, Computer science.
Developed skills: Python, R, Keras, Numpy, TensorFlow, Scikit-learn, Pandas, Git, SQL, Linux, C/C++

LANGUAGE SKILLS

Mother tongue(s): **French**

Other language(s):

English

LISTENING C1 **READING** C2 **WRITING** C2

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1

DIGITAL SKILLS

My Digital Skills

Deep Learning / Data Science / Artificial Intelligence / Machine Learning / Computer Vision / Coding / Modeling / Analytics / NLP / programming / Data analytics

PROJECTS

Tabular Playground Series - Sep 2022 (Final rank: 13/1363)

One example from the competitions I participated in on Kaggle:

• The goal was to forecast sales during the tumultuous year 2021 for "Kaggle merchandise stores" datasets.

• The difficulty lied in the data analytics part when conditions are far from the ordinary.

Training of a point cloud Transformer model in PyTorch with GCP

One example from the projects I developed at school (you can find them on my Github):

• The objective of this project was to delve into the point cloud segmentation problem.

• The particular structure of point clouds can be more adequately captured by the attention mechanisms of Transformer models.

Vision Transformer Gradio Demo

My first gradio demo as I started to contribute to open source:

• Built a demo where a pre-trained model predicts missing words in a sentence and added some useful visualization.

• Collaborated with developers on Github to solve issues and deliver qualitative content.