Furkan Ozyurt

New York | (618) 802-0464
Personal Website | LinkedIn | E-Mail | GitHub

SUMMARY

Master of Science student in Computer Science at New York University, with experience in training, evaluating, deploying, and maintaining machine learning and deep learning models. Experienced in Python, C++, AWS, Azure, Databricks, Git, Docker, Kubernetes, MLOPs, and deep learning frameworks such as PyTorch and Keras. Possesses strong theoretical knowledge of various deep learning architectures, including CNNs, RNNs, LSTMs, Transformers, Autoencoders, VAEs, GANs, and Diffusion Models. Has a strong background in GPU architecture and CUDA.

EDUCATION

New York University – Courant **09/2023-05/2025**
Master of Science – Computer Science

Istanbul Technical University **08/2016-05/2020**
Bachelor of Science – Industrial Engineering (Mathematics Minor)

EXPERIENCE

Amgen
Boston/MA

Data Scientist (Contract) **03/2022-06/2023**

- Fine-tuned large language models (e.g., BERT, RoBERTa, GPT-3) on company-specific datasets to perform text summarization, generation, paraphrasing, classification, and question answering.
- Developed and deployed a machine learning pipeline with an **89%** F1 score to predict whether changes in documents required reporting. Integrated the model into an application and implemented performance monitoring. The pipeline reduced decision-making time by **95%.**
- Built a search engine that retrieved documents most similar to user inputs. This cut the time spent searching for information by **99%** after being integrated into the application.
- Designed and managed robust data pipelines to ensure the team had continuous access to high-quality, clean, and up-to-date data.
- Optimized a previously developed machine learning pipeline and reduced runtime from 18 hours to 4 hours (a **75%** reduction) using PySpark.

Associate Engineer (Contract) **09/2020-03/2022**

- Developed a deep learning pipeline that classified documents into categories with **80%** accuracy and integrated it into an application which saved the department approximately **$500,000.**
- Designed and implemented a machine learning pipeline in AWS SageMaker to predict product consumption for key company products across multiple locations.

PROJECTS

Truck Backer Upper | Link **11/2023-02/2024**

- Worked on a project with the goal of developing a reinforcement-learning free system that enables a simulated truck to back up to a target position from any initial location autonomously without collecting any data manually.
- Developed a custom loss function tailored to the challenges of the task because standard loss functions were not useful.
- Built two separate models: one to create internal representation of the environment in which the truck operates and another to determine the optimal steering angle for the truck's next move based on the internal representation of the environment.
- Successfully trained these models to enable the truck to consistently reach the target position smoothly no matter where it is initialized.