

EDUCATION

- **Masters in Artificial Intelligence** August 2020 – July 2022
VU Amsterdam *Amsterdam, Netherlands*
- **Bachelors of Science in Computer Engineering** August 2014 – June 2019
Middle East Technical University *North Cyprus, Turkey*

PROJECTS AND PUBLICATIONS

- **Auto-Encoder Knowledge Extraction for Anomaly Detection Task:** Using co-activation graphs to represent knowledge learned by auto-encoders during training (ACM K-CAP conference 2021).
- **Exploration of Deep Learning Models for Integrating Log Data in Maintenance Classification:** Developing and evaluating novel transformer based language models for downstream medical device maintenance and diagnosis.
- **Boolean Logic Ensemble Method:** Hierarchical categories with a novel boolean logic ensemble classifier to overcome dataset limitations.
- **Can It Drive (CID):** Modular self-driving system for use in virtual environments.

EXPERIENCE

- **ING** September 2022 - Present
Data Scientists *Amsterdam, Netherlands*
 - Designing a churn prediction system for evaluating the likelihood of customers leaving ING services.
- **Philips** January 2022 - July 2022
AI for Language Research Intern *Eindhoven, Netherlands*
 - Developed novel transformer based language models for log data generated by medical devices for down stream predictive maintenance and diagnostic tasks.
 - Experimented with combining natural language information with machine generated data for predictive maintenance and diagnosis.
 - Facilitated social and career events for the intern community at Philips as a board member of the Philips Intern Committee.
- **VU Amsterdam** November 2021 - July 2022
Research Assistant *Amsterdam, Netherlands*
 - Developed novel data pipelines to feed deep learning transformer based models for the task of epitope (protein-protein interaction) prediction.
 - Experimented with using coactivation graphs on transformer based model (OPUS-TASS) for interpretability.
- **OneByte** September 2019 - December 2021
Data Scientist *Remote Work*
 - Developed back-end systems for identifying actionable findings and organ-specific abnormalities in patient screening and monitoring systems.
 - Developed SpaCy based natural language models for entity linking, recognition and extraction from medical documents.
 - Developed a natural language model to map medical procedure names from different hospitals to a standardized lexicon.
 - Implemented custom Prodigy based pipelines for model assessment by domain experts. The pipeline also included monitoring system that provides an overview of expert feedback and progress.
 - Developed a deep learning model for muzzle print identification of cattle using computer vision and few shot learning.
- **Paitoo** February 2019 - September 2019
Machine Learning Engineer *Lahore, Pakistan*
 - Developed a recommendation engine for food centered social media app.
 - Developed an ensemble based hierarchical image classification model to automatically classify dishes in Paitoo database.
 - Developed, tested and maintained a system to identify and rank trending restaurants and items within the app.
 - Provided data driven insights about user behavior, to increase customer retention and satisfaction.

SKILLS

- **Proficient with:** Python - SkLearn - OpenCV - Pandas - TensorFlow - Git - Pytorch - Elastic Search - Linux - Pytoch - Spacy - AllenNLP
- **Have Knowledge of:** C++ - IoT Technology - C# - Azure - AWS - GCP - SQL

SELECTED COURSEWORK

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|---|---|
| • Machine Learning | • BioInformatics |
| • Artificial Intelligence | • Multi-Agent Systems |
| • Experimental Design and Data Analysis | • Data Mining |
| • Knowledge Representation | • NLP Technologies |
| • Socially Intelligent Robotics | • Machine Learning and Reasoning for Healthcare |
| • Evolutionary Computing | |