

Experience

- 2024– **AI Lead**, *Cognifinity*, Luxembourg
 - RAISE project funded by Luxinnovation
- 2024 **AI Consultant**, *OCROO Engineering*, Luxembourg
- 2019–2023 **Industrial Ph.D.**, *FNR Bridges*, Luxembourg
 - FNR funded industrial partnership project: ExLiFT (Explainable Machine Learning (ML) in FinTech)
 - Explainable Techniques for Clustering/Classification/Resampling in ML Pipeline
- 2014–2019 **Senior Researcher**, *TUBITAK Marmara Research Center*
 - Developed Dispatcher Information System (YTBS)
 - Integrated and communicates over 1000 Power Quality System Devices
 - Used by Turkish Electricity Transmission Company in countrywide since 2015

Education

- 2019–2023 **Ph.D., SnT**, *University of Luxembourg*, Luxembourg
- 2015 **M.Sc., Computer Engineering**, *METU*, Ankara (Turkey)
- 2012 **B.Sc., Computer Engineering**, *METU*, Ankara (Turkey)

Grants & Awards

- 2024 LU-CID: Cybersecurity Innovation programme by NC3 and Luxinnovation
- 2022 Luxembourg Finnovation Hub Member
- 2021 ECML/PKDD 2021/2022/2023 Program Committee Member
- 2019 ExLiFT, Explainable Machine Learning in FinTech, FNR Bridges programme
- 2017 TUBITAK Best Research Group Award (Power Systems Information Tech.)

Publications

Articles (First Author)

- **Large Language Models and Financial Domain Datasets**
 - Exploiting Prototypical Exp. for Undersampling Imbalanced Datasets. In *ICMLA 2022*
 - Towards Refined Classifications driven by SHAP explanations. In *CD-MAKE 2022*
 - On the Suitability of SHAP Explanations for Refining Classifications. In *ICAART 2022*
 - A Comparison of Pre-Trained Language Models for Multi-Class Text Classification in the Financial Domain. In *Web Conference 2021*

- **Energy Domain Datasets**

- Clustering River Basins using Time-Series Data Mining on Hydroelectric Energy Generation. In *DARE of ECML/PKDD 2018*
- Short-Term Electricity Consumption Forecast using Datasets of Various Granularities. In *DARE of ECML/PKDD 2018*
- Basin clustering of Turkey by use of monthly stream-flow data. In *ICMLA 2015*.

- **NLP Datasets**

- Twitter Sentiment Analysis Experiments Using Word Embeddings on Datasets of Various Scales. In *NLDB 2018*
- Real-Time Lexicon-Based Sentiment Analysis Experiments On Twitter With A Mild (More Information, Less Data) Approach. In *IEEE BigData 2017*

Languages

Turkish Mothertongue

English Advanced

French Elementary