

Amirhossein Layegh

KTH Royal Institute of Technology
Stockholm, Sweden
☎ +46 (73) 49 13 530
✉ amlk@kth.se
in amirhosseinlayegh



Research Interests

Scalable Machine Learning (ML) and Deep Learning (DL), Natural Language Processing, Reinforcement Learning, Distributed Systems

Employment

- 2021 – now **Doctoral Student in information and Communication Technology**, *KTH Royal Institute of Technology*, Sweden
- 2020 – 2021 **Senior Data Scientist**, *Neshan Maps*, Iran
Applied speed estimate techniques on large user datasets to determine the traffic flow for individual road segments and forecast the total traffic flow.
- 2019 – 2020 **Junior Data Analyst**, *Koolbitz Ltd.*, UK
Developed ML/DL algorithms to find patterns and trends for recommendation in large sales datasets.
- 2017-2018 **Software Developer**, *Ranir*, Iran
Worked as an Oracle Application Development Framework (ADF) developer to build Java-based enterprise applications.

Education

- 2021 – now **PhD in Information and Communication Technology**, *KTH Royal Institute of Technology*, Sweden
Advisers: Prof. Mihhail Matskin and Dr. Amir H. Payberah
- 2018 – 2019 **MSc in Big Data Science**, *Queen Mary University of London (QMUL)*, UK
Thesis: Implementation of a Recommendation System for a retail store based on basket analysis
Advisers: Dr. Arman Khouzani
- 2012 – 2017 **BSc in Software Engineering**, *Ferdowsi University of Mashhad (FUM)*, Iran
Adviser: Dr. Mohsen Kahani

Teaching and Supervision

Teaching

- Modern Methods in Software Engineering, KTH, 2021–now
- Distributed AI and Intelligent Agents, KTH, 2018–2021
- Databases, FUM, 2016

Supervision

- MSc thesis supervisor of 4 Master students

Publications

- ContrastNER: Contrastive-based Prompt Tuning for Few-shot NER (2023)

- Datacloudsl: Textual and Visual Presentation of Big Data Pipelines (2022)
- A survey of big data pipeline orchestration tools from the perspective of the datacloud project (2021)

Grants

- *DataCloud: Enabling the Big Data Pipeline Lifecycle on the Computing Continuum* (co-PI), KTH, Funded by H2020, Volume: 5M Euro, ICT-40-2020, 2021–2024.