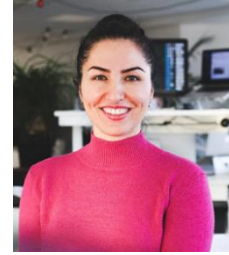


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Degrees

MSc in Machine Intelligence and Data Science (ongoing)

This is a one-year master's program in which I have already done all the mandatory courses and am currently working on my thesis.

Thesis: LLM-Supported Environmental Intelligence: From Raw Data to Intuitive Peatland Insights

Supervisors: Dr. Fahimeh Farahnakian and Dr. Niraj Dayama

Ph.D. at Åbo Akademi University (Jun. 2025)

Faculty of Social Sciences, Business and Economics, and Law, School of Business and Economics/ Information Systems

Supervisors: Prof. Jozsef Mezei (jmezei@abo.fi), and Dr. Markku Heikkilä (markku.heikkila@abo.fi)

Thesis: Decoding Customer Sentiment: AI-Driven Insights into E-Commerce Trust and Satisfaction, available at [link](#)

MBA – Leadership and Service Design- Turku University of Applied Sciences (2019)

Supervisor: Ulla Seppälä-Kaven -ulla.seppala-kaven@turkuamk.fi

Thesis: Smart Living Environment for Ageing Well - GPA: 4

B.Sc. – Computer Engineering / Software Engineering - Azad University - IRAN (2002)

Supervisor: Mohammad H. Nadimi-Shahraki - nadimi@iaun.ac.ir

Thesis: Automation of a Library Management System - GPA: 5

Other Education and Expertise

Full-stack development at Turku University (2019) - 6-month program

Instructor: Tapani Joelsson - tapani.joelsson@utu.fi

Big Data Analytics at Arcada University of Applied Sciences (2024) - 6-month program

Instructor: Leonardo Espinosa-Leal, Principal Lecturer & Degree Programme - leonardo.espinosaleal@arcada.fi

Skills

Programming Languages: Python

Machine Learning/Deep Learning Tools: TensorFlow, PyTorch, Keras

Data Analysis Software: Pandas, NumPy, Scikit-Learn

High-Performance Computing: Experience running large-scale NLP/LLM experiments on supercomputer (CSC Finland)

Language Skills

English (fluency), Finnish (upper intermediate), Persian (native)

Recent Employment

Postdoctoral Researcher (University of Turku/TurkuNLP – Jan. 2025-Nov. 2026)

Project summary: We have a huge dataset of news, and my task is to find supply chain risks for certain companies by using LLMs

Project manager: Prof. Filip Ginter- filip.ginter@utu.fi

Continuation of digitizing the remainder of the card catalogue at the Åbo Akademi University Library (Åbo Akademi University - Jan. 2024- Mar. 2024)

This project was halted due to a delay in receiving data from the company performing OCR on the catalogue. Given the short timeframe, the project's focus has been shifted. For this project, I utilized ML models to identify cards marked with a handwritten "A," indicating that these cards are already in the database. Additionally, some cards contained multiple items in their XML files. I created separate cards (XML files) for each item, including a detailed description for each one.

Project manager: Prof. Jozsef Mezei - jmezei@abo.fi

Digitizing the remainder of the card catalogue at the Åbo Akademi University Library (Åbo Akademi University - Jan. 2023-Jun 2023)

Project summary: This project has a Handwritten Text and Image Recognition approach by using machine learning and Natural Language Processing methods. There are over 100,000 books in the library that are not accessible online for searching and booking. The plan was to digitalize the library card catalogue. The library cards were converted to images and XML files (containing the content of the cards) by a Swedish company. Each catalogue has handwritten and machine-written text. The Swedish company converted all the machine-written images and some of the handwritten images to text. My task was to recognize the rest of the handwritten images on each card and convert them to text.

Project manager: Prof. Jozsef Mezei - jmezei@abo.fi

City of Turku - Neighbourhood sentiment impact on housing prices (Åbo Akademi University - May 2021-Dec 2022)

Project summary: For this project, the data was scraped from Suomi24. Afterward, we defined the aspects as 12 different regions in Finland, such as Kontula, Leppävaara, Varissuo, etc. Then we annotated the dataset according to the sentiment found in each message toward our interest areas. To better understand the messages, we built a lexicon-based dataset consisting of all the unique words in the messages and annotated the words as (positive, negative, and neutral) to understand the root of satisfaction or dislike toward each area. We used different methods to train deep-learning models (Transformer-based models such as BERT and RoBERTa) for model training. We got around 88% accuracy on the training set and around 80% on the test set. The result of this research will be used to study the possible correlation between price and sentiment changes and fluctuations in each area over time.

Project manager: Prof. Anssi Öörni - anssi.oorni@abo.fi

Previous Work Experience

Norded - service designer - Jun. 2019 - Apr. 2020

UI Prototyping by Figma

Conducting workshops and interviews

MVP development, product manager, technical coordinator, and market research

Bandar Abbas Oil Refining Co. (Iran)-programmer - Jan. 2006 – Aug. 2014

Software Design, development, and R&D

Team and product management

Application and database maintenance

Data and systems integration

Ariana Informatics Co. (Iran) - Software Developer - Oct. 2004 – July 2005

Developing an e-form solution and database integration

Foolad Technic Co. – Contractor – 2003

e-Form/paperless solution for automating forms in the organization

Teaching Computer Courses - 2002

Teaching programming and IT courses at vocational schools and private institutes.

Career breaks

Sep. 2014 – Aug. 2017: Parental leave

Research Funding and Grants

1. *Klingendahls's fond – Åbo Akademi University – 6 months– (Jan. 2021-Jun. 2021)*
2. *Klingendahls's fond – Åbo Akademi University – 7 months – (01.07.2023 – 31.12.2023)*
3. *Jenny ja Antti Wihurin rahasto – 7 months – (01.04.2024 – 31.10.2024)*
4. *Foundation for Economic Education (Liikesivistysrahasto) – 3 months – (01.11.2024 – 31.12.2024)*
5. *Jubileumsfonden fond - Åbo Akademi University – 3 months – 42000,00 SEK – (15.08.2023 –31.11.2023): This travel grant is awarded for a 3-month research visit at the Clinical Text Mining Group, Department of Computer and Systems Sciences, Stockholm University to cover my rent and traveling expenses*
6. *The Foundation for Economic Education (Liikesivistysrahasto) – conference visit grant – (23.011.2023)*
7. *Marcus Wallenbergin Liiketaloudellinen Tutkimussäätiö – (May 2024)*
8. *Foundation for Economic Education (Liikesivistysrahasto) – 12 months – (01.01.2027 – 31.12.2027)*

Research Visit

1. *Department of Logistics, Uniwersytet Mikołaja Kopernika w Toruniu, Poland (5 days), 13th to 17th of October 2025*
 - a. *Host for the visit was Assistant Professor Iwona Wasielewska Marszałkowska*
 - b. *Research collaboration focus:*

- i. To build and strengthen international collaboration with the Logistics Department (Institute of Management and Quality Sciences, Faculty of Economic Sciences and Management)
2. Department of Computer and System Sciences (DSV), Stockholm University, for 3 and a half months (15.8.2023-31.11.2023)
 - a. Purpose: **Using LLMS (Llama, AI-Sweden-Models/GPT-sw3, and GPT3) to generate annotated synthetic training data for removing personal identification information from Electronic Health Records**
 - b. Supervisor: Prof. Hercules Dalianis, Phone: +46-8-16 16 16, E-mail: hercules@dsv.su.se
 - c. Required data to conduct the research was provided by the Clinical Text Mining Group of the Department of Computer and Systems Sciences, Stockholm University

Publications

1. *A Comparative Study of Machine Learning Models for Sentiment Analysis: Customer Reviews of E-Commerce Platforms* - DOI: <https://doi.org/10.18690/um.fov.4.2022>
2. *Enhancing the Understanding of E-commerce Reviews through Aspect Extraction Techniques: A BERT-based Approach* - DOI: <https://doi.org/10.18690/um.fov.4.2023>
3. *Customer Review Analysis of Online E-commerce Platforms — A Configurational Approach*: <https://hdl.handle.net/10125/106564>
4. *A Large Language Model and Qualitative Comparative Analysis-Based Study of Trust in E-Commerce* - DOI: <https://doi.org/10.18690/um.fov.4.2023>
5. *Aspect-Based Sentiment Analysis of Finnish Neighborhoods: Insights from Suomi24*-URL: <https://aclanthology.org/2024.iwclul-1.pdf>
6. *Aspect-based sentiment classification of user reviews to understand customer satisfaction of e-commerce platforms* -DOI: <http://doi.org/10.1007/s10660-025-09948-4>
7. *Benchmarking Large Language Models for Reputational Risk Assessment in Supply Chains: A Case Study* (Accepted in 29th International Symposium on Logistics (ISL 2025) Theme: Embedding Circularity in Supply Chains URL: <https://www.islconf.org/wp-content/uploads/2025/08/Proceedings-ISL-2025.pdf>
8. *Risk Detection in E-commerce with LLMs: Annotation Challenges and Lessons from Real-world Business News* -DOI: http://dx.doi.org/10.1007/978-3-032-06164-5_11
9. *Automating Customer Feedback Analysis in E-commerce: A Multi-Model Approach* - DOI: <https://doi.org/10.1016/j.eswa.2025.130865>
10. *Decoding Customer Sentiment: AI-Driven Insights into E-Commerce Trust and Satisfaction* URL: <https://urn.fi/URN:ISBN:978-952-12-4505-3>
11. *Large Language Models for Risk Detection in E-commerce: Reliability, Semantic Alignment, and Managerial Insights* (Under review – Springer's SN Computer Science)
12. *From Perceptions to Predictions: A Mixed-Method Study of Supplier-Related Reputational Risks and Large Language Model Performance* (Under review – International Journal of Logistics Management)

Research supervision and leadership experience

I had the opportunity to co-supervise a bachelor's thesis together with Professor Ginter on the topic of supply chain risk analysis using large language models (LLMs). This was a rewarding experience, and I am enthusiastic about continuing to contribute to teaching and supervision in the future.

Teaching merits

I used to be a high school computer teacher in a vocational school. I was Teaching programming and IT courses at a vocational school and also in private institutes.

Scientific and societal impact

1. *Creating 3 manually annotated datasets in English for aspect-based sentiment analysis tasks and aspect extraction tasks taken from actual user feedback (Taken from Trustpilot). The data is available at <https://doi.org/10.6084/m9.figshare.24980994.v1>*
2. *Creating 2 manually annotated datasets in Finnish for aspect-based sentiment analysis tasks and one a lexical dataset for sentiment analysis tasks. The data will be published upon request.*
3. *Creating a manually annotated dataset for Supply Risk Identification in English. The data is available at <https://github.com/TurkuNLP/AI-SIM>*

Other merits

1. *I had the opportunity to be a member of an assessment committee and assess teaching demonstrations, as representative of the student category for recruiting an Assistant or Associate Professor in Business Administration, especially Information and Knowledge Management (in digital contexts) at Åbo Akademi University.*
2. *I am one of the steering board members of AI-SIM projects funded by Business Finland*
3. *I had the opportunity to be a reviewer in several peer-to-peer review leading journals and conferences.*
4. *I had the opportunity to be interviewed and promote my research in one of the leading trade magazines in Sweden (<https://kvalitetsmagasinet.se/forskare-kundnojdhet-avgor-e-handelns-framtid/>)*
5. *I had the opportunity to chair a "Decision-Making and Digital Risk Management" session at the 24th IFIP Conference e-Business, e-Services and e-Society I3E 2025 (<https://cyprusconferences.org/i3e2025/program/>)*