Saeed Mehrang

LEAD DATA SCIENTIST, DOCTOR OF SCIENCE

Helsinki, Finland

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Summary

Doctor of Science (Tech) and Lead Data Scientist (Founding Partner) at Vaalia Health. With 10+ years of R&D and 5+ years of industrial AI product development work experience. In the tech domain, my specializations are in machine learning algorithms, causal inference, MLOps, python programming, signal and image processing, and applications of Gen AI and LLMs. In terms of soft skills, I have a reputation for self-learning, disentangling, and simplifying complex problems, project planning, and presentation. These days, I am fully focused on leading the R&D work around the applications of causal AI to improve clinical cancer care.

It is worth mentioning that I can work in all EU member states.

Education

University of Turku — *Turku, Finland*

Doctor of Science (Technology), Information and Communication Technologies — *Aug 2018 - Dec 2023*
- **Thesis:** Machine Learning for the Classification of Atrial Fibrillation utilizing Seismo- and Gyrocardiogram

Tampere University of Technology — *Tampere, Finland*

Master of Science (Technology), Information Technology — *Aug 2013 - Nov 2016*
- **GPA:** 4.48/5
- **Thesis:** Outlier Detection in Weight Time Series of Connected Scales: A Comparative Study

Azad University, Khomeinishahr Branch — *Esfahan, Iran*

Bachelor of Science, Biomedical Engineering — *Sep 2008 - Sep 2012*
- **GPA:** 16.82/20

Skills and Expertise

Artificial Intelligence	Classical machine learning, deep learning, neural architecture design, feature engineering, deep learning uncertainty estimation, unsupervised and self-supervised learning, causal AI, agentic AI, advanced RAG, training and finetuning language models
Programming Languages	Python, R, Bash, SQL, MATLAB
Python packages	Tensorflow, PyTorch, Pytorch-lightning, Wandb, Transformers, XGBoost, Scipy, Scikit-Learn, Ray, Mlflow
Tools	Linux, Git (-hub, -lab), Docker, cloud ML (Azure, GCP, AWS), Jira, Confluence
Software Development	Object oriented programming, functional programming, MLOps, unit testing, python packaging
Signal and image analysis	Signal processing, computer vision, time-series forecasting
Other Software	LaTeX, MS Office, Corel Video Studio
Soft skills	People and project management, public speaking, academic writing and presentation

Work Experience

Vaalia Health — *Helsinki, Finland*

Lead Data Scientist, Founding Partner — *Apr 2024 - Present*
- Leading research and development division
- Contributor to company strategic planning
- Responsible for designing, developing, validating, and deploying causal AI models
- Responsible for bridging and translating clinical oncology practice and data science
- Contributor to causal inference talent haunting and recruitment

Silo AI — *Helsinki, Finland*

Senior Artificial Intelligence Scientist — *Mar 2022 - Mar 2024*
- Unsupervised and self-supervised learning ; data-centric AI ; deep learning pipeline ; LLM fine-tuning ; RAG development
- Software development for data integration ; planning and designing MLOps ; signal and image processing ; AzureML
- Leading medical AI research and development team
- Thesis work supervision

Silo AI   *Helsinki, Finland*

Artificial Intelligence Scientist   *Mar 2020 - Feb 2022*

- Deep learning pipeline ; deep neural architecture design ; software development for data integration ; signal processing ; GCP

University of Turku   *Turku, Finland*

Project Researcher and Doctoral Candidate   *Dec 2017 - Feb 2020*

- Classical machine learning ; deep learning ; feature engineering ; signal processing
- Teacher assistant in biosignal processing course

Tampere University of Technology   *Tampere, Finland*

Project Researcher   *Apr 2017 - Nov 2017*

- Classical machine learning ; feature engineering ; signal processing
- Personalized motion characterization system design

Tampere University of Technology   *Tampere, Finland*

Research Assistant   *Feb 2015 - Dec 2016*

- Classical machine learning ; feature engineering ; statistical data analysis ; signal processing

Achievements

#	**Scholarship winner**, 9-month University of Turku, Graduate School Scholarship	*2019-2020*
#	**Scholarship winner**, Bertelsmann Udacity Scholarship for Cloud Computing Nano Degree Program	*2019-2020*
#	**Research grant winner**, The Finnish Foundation for Technology Promotion	*2019*
#	**Research grant winner**, Nokia Foundation	*2019*
#	**Top student**, Winner of Top Student in the fourth year of Bachelor's degree (Ranked 2nd)	*2011-2012*

Especial Training

#	**Entrepreneurship**, 3-month startup incubator program at Boost Turku.	*2019*
#	**Entrepreneurship for Research Scholars**, special course at the University of Turku.	*2018*

Interests

- Compute and Parameter Efficient AI
- Applications of Gen/Agentic AI
- Human AI Interaction
- Agentic AI for Education and Multimedia
- AI in Health/Life Sciences: Accelerating Discovery and Patient Care

Hobbies

- Chess
- Running, Gym, Fitness
- Playing Music (Setar)
- History and Geology
- Cooking
- Meditation

Languages

English   Professional proficiency
Persian   Native proficiency
Swedish   Intermediate proficiency
Finnish   Beginner proficiency

References available upon request.