

Shamimeh M. Nav

shamimehmohajeri@gmail.com | (+47) 40565746

Kirkegata, Moss, 1530, Norway

Date of birth: 04.10.1998

LinkedIn: www.linkedin.com/in/Shamimeh-MN

GitHub: <https://github.com/ShamimehM>



Key Qualifications / Nøkkelkvalifikasjoner

Analytical, adaptable, and detail-oriented AI professional with expertise in Python, ML, and DL. Strong communicator, problem-solver, and team collaborator. Multilingual, with the ability to thrive in global and interdisciplinary teams. Passionate about applying cutting-edge AI solutions in Norway's tech industry to drive innovation and long-term impact.

Education / Utdanning

August 2023 - June 2025 **Oslo Metropolitan University**, Oslo, Norway

MSc ACIT - Applied Artificial Intelligence

Specializing in advanced AI techniques and interdisciplinary applications. Key modules include Advanced ML and DL, Computational Intelligence, ML for Images and 3D Data, Projects in Human-Computer Interaction, Evolutionary AI and robotics, Digital Signal and Image Processing.

Master's Thesis: *Exploring the Reliability of EEG and Eye-Tracking for Biometric Authentication: Strengths, Limitations, and Multimodal Benefits*

Investigated the strengths and limitations of EEG and eye-tracking signals for biometric authentication, and developed hybrid models to evaluate the benefits of combining modalities.

Sep. 2017 - March 2022 **University of Isfahan**, Isfahan, Iran

Bachelor's degree, Computer Science

Covered core computer science topics such as programming in C++ and Python, logic, algorithms, and networks.

Key Projects / Viktige Prosjekter

- Developed and evaluated **EEG-based, eye-tracking-based, and hybrid biometric authentication** models, using ML and DL techniques, for master's thesis. Conducted a comparative analysis by implementing different classification models, including GaussianNB, Linear & Ridge Regression, Lasso, ElasticNet, Gradient Boost, AdaBoost, and XGBoost, alongside DL architectures such as CNN, EEGNet, InceptionTime, PyramidalCNN, and Xception. Assessed modality-specific and multimodal performance to optimize reliability and feasibility in biometric authentication systems.
- Developed pipelines using Neural Radiance Fields for **3D geometry reconstruction**, integrating PyTorch3D, Open3D, and Chamfer Distance evaluation.
- Developed an **AI-driven mobile app for promoting healthy habits in children** with customizable avatars, activity tracking, and gamified tools, utilizing HTML, CSS, JavaScript, and Azure SQL, validated through user feedback and participatory design.
- Developed an **AI-driven psychology support platform using LLama**, designed to provide real-time advice in Norwegian. Built and presented during Meta Hackathon (Feb 2025), showcasing AI-driven mental health assistance.
- Developed **Super-Resolution models for pathology images**, including ESRGAN and EDSR, enhancing image quality for improved analysis and diagnostics. Applied **Fuzzy systems to breast cancer datasets**, with **ID3, Random Forest, and ROC analysis**, building classification models for predictive analytics and decision support.
- Implemented **Evolutionary Algorithms**, including Genetic Algorithms, Bees Algorithm, Particle Swarm, and Ant Colony Optimization, for N-Queen and Travelling Salesman Problems.
- Applied Decision Tree algorithms for **Vehicle Evaluation** and K-means clustering for **AT&T database analysis**.
- Applied **advanced data processing techniques on house rental offers and diabetes datasets** including data normalization, PCA, KNN, K-fold Cross Validation, and Comprehensive model evaluation.
- Developed **object detection models** using YOLO and OpenCV for image processing for Bachelor's Project. Using CUDA for performance optimization, worked with unlabeled data, and utilized Git for version control.

Work Experience / Arbeidserfaring

Aug. 2025 – Present **AI Developer Intern, Full-time**, SOMEBODYMAKEIT AS, Oslo, Norway

March 2024 – July 2025 **Research Assistant, Part-time**, Oslo Metropolitan University, Oslo, Norway

Collected and managed data for the eye-gaze project, focusing on eye sensors and eye movements. Ensured optimal experiment conditions, calibrated equipment, and maintained dataset accuracy. Increased participant enrolment by 176%, significantly improving data robustness. Secured a strong follow-up rate, ensuring high participant retention for subsequent studies.

Aug. 2024 – Dec. 2024 **Teacher Assistant, Part time**, Oslo Metropolitan University, Oslo, Norway

Taught lab sessions for the Evolutionary Artificial Intelligence and Robotics course.

Jan. 2020 – July 2023 **Co-owner, Entrepreneur, and Marketing Manager**, Gavazne Abi, Rasht-Isfahan, Iran

Co-managed a small business in Iran, driving social media growth and online sales through targeted marketing strategies. Led initiatives that doubled sales, developed engaging content for social media platforms, and played a pivotal role in brand positioning and digital outreach.

April 2020 – Nov. 2020 **Freelance Content Writer and Translator**, Isfahan, Iran

Provided creative content writing and translation services for various clients. Developed writing skills in different fields, meeting deadlines and maintaining high quality content.

Sept. 2019 – July 2020 **Lab Assistant, Part-time**, University of Isfahan, Isfahan, Iran

Maintained and updated department labs' computers and electronic devices. Installed and troubleshooted software as required by the department's teachers and staff.

Skills & Courses / Ferdigheter og Kurs

Courses & Certifications

Introduction to Machine Learning - Duke University
Neural Networks and Deep Learning - DeepLearning.AI
Improving Deep NN: Hyperparameter Tuning, Regularization and Optimization - DeepLearning.AI
Supervised Machine Learning: Regression and Classification - DeepLearning.AI
Introduction to Intel Distribution of OpenVINO toolkit for Computer Vision Applications - Intel
Introduction to Big Data with Spark and Hadoop - IBM
Intro to Managing Resources Using Infrastructure-as-Code - Codio
Network Principal (Network+) - Abolfazl Kazemi, Maktabkhooneh

Technical Skills **Python** - Pandas, NumPy, Scikit-learn, Pytorch, TensorFlow, Keras, Matplotlib, Seaborn, PySpark
Typescript, C++ , HTML, JavaScript, CSS, MATLAB and Latex

Strong understanding of Machine Learning, Deep Learning and Artificial Intelligence

Familiar with **MySQL, Networks, and Java**

Social Media Management and Content Creation

Soft Skills Communication & Teamwork, Customer Service, Critical & Logical Thinking, Broad Knowledge & Creativity, Cultural Awareness, Flexibility & Adaptability, Intercultural communication

Other Competencies / Andre Kompetanser

Languages **Persian** (Native)
English (Advanced proficiency- IELTS 7.5)
Norwegian (Keen learner - A2)

Volunteering Buddy program for international students - OsloMet (Fall 2024 – Spring 2025)
Students' scientific association - University of Isfahan (2018-2022)

References available upon request.