

MELIKA AYOUGHI

PhD. in Machine Learning

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EDUCATION

Ph.D Student in Machine Learning

University of Amsterdam, @VIS Lab & INDE Lab

📅 Oct. 2020 – Now 📍 Amsterdam, Netherlands

Working on hyperbolic spaces and using hierachies as prior information for learning more efficiently.

M.Sc. Artificial Intelligence, *GPA: 8/10*

University of Amsterdam

📅 Sep. 2018 – August 2020 📍 Amsterdam, Netherlands

- Implemented most major concepts in machine learning including Gaussian processes, VAE, GAN, RNN/LSTM, Normalizing Flows, among others.

B.Sc. Software Engineering *GPA: 17.52/20*

University of Tehran

📅 Sep. 2013 – June 2018 📍 Tehran, Iran

- 1st Rank
- Strong background in Advanced Algorithms and Data Structures, Internet Engineering, System Analysis and Design, Signals and Systems

Highschool Diploma, *GPA: 19.84/20*

National Organization for Development of Exceptional Talents (NODET)

📅 Sep 2006 – Jun 2013 📍 Tehran, Iran

- Mathematics and Physics Discipline

PROFESSIONAL EXPERIENCE

M.Sc. Thesis Intern

TomTom

📅 Nov. 2019 – July 2020 📍 Amsterdam, Netherlands

- One of the main challenges here is the imbalance between the different classes and how hard it is to learn about less-frequent categories compared with frequent categories. Our goal was to tackle the challenges coming with long-tailed distributions. `Pytorch`

Intern

Dexter Energy Services B.V.

📅 June 2019 – July 2019 📍 Amsterdam, Netherlands

- Implemented a recurrent neural network (ConvGRU) to predict future cloud position using satellite imagery of clouds (EUMETSAT data) for weather forecasting.
`Pytorch`, `Google Cloud Services`

Teaching Assistant

University of Amsterdam/ University of Tehran

📅 Sep. 2015 – Now 📍 Amsterdam & Tehran

- Teaching Assistant for these courses: **UvA**: Applied Machine Learning, Machine Learning 1 **UT**: Artificial Intelligence, Data Structures, Algorithm Design, Computer networks, Introduction to Computing Systems and Programming `Python`, `C++`

Intern

Computational Social Science Lab, ETH Zürich

📅 July 2016 – Sep. 2016 📍 Zürich, Switzerland

- Developed a system for the existing "Dynamic Intelligent Aggregation Service (DIAS)" intended to aggregate and disseminate data in a secure way without a central supervision control system.
(<https://www.nervousnet.ethz.ch>)
`Java`

VOLUNTEER EXPERIENCE

Admin, Mentor

UvA Inclusive AI

📅 Oct. 2020 – Now 📍 Amsterdam, Netherlands

- Mentoring the underrepresented students of the UvA AI masters program. Organizing events and workshops, financing students to attend conferences.

Volunteer

AIESEC Poland

📅 July 2015 – Sep. 2015 📍 Kielce, Poland

- Managed the team of 10 interns from 8 different countries. Conducted seminars for NGOs and museums with the purpose of raising the cultural and social awareness among Polish people about Iran.

ICX Team Leader

AIESEC Iran

📅 Sep 2015 – June 2016 📍 Tehran, Iran

- Designed and promoted projects, recruited volunteers and took part in several leadership workshops within AIESEC.

ACADEMIC PROJECTS

- **Bachelor's Thesis**: Sentiment Analysis on customer ratings of an e-commerce corporation (Digikala) with LSTMs, `Python`, `Apache Spark`, `Scala`
- **Online Flight Reservation**: `AngularJS`, `Ajax`, `Ruby on Rails`, `HTML`, `CSS`, `JavaScript`, `Docker`, `Maven`, `Tomcat`

PUBLICATIONS

- Accepted at Women in Machine Learning Workshop at Neurips Self-Contained Entity Discovery from Captioned Videos