Taha Heidari

Nationality: Iranian
Date of Birth: 20.09.1996
Gender: Male

Contact

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Hobbies
Kiteboarding
Running
Guitar Playing

About ME

Master's Student in Automation Engineering with about 2 years of work experience in Data Engineering and 1 year of academic work as a Teaching Assistant in Machine Learning Courses at university.

Working with different datasets and implementing different Machine Learning methods. Extracting Bayesian Inference from datasets using Monte Carlo Markov Chain (MCMC) methods. Working with Flutter as a powerful framework to build user-friendly apps.

Eager to learn new frameworks in Machine Learning, Data Science and AI. currently looking forward to get a master's thesis position.

EDUCATION AND TRAINING

Aalto University

Master of Science in Automation and Electrical Engineering
01/09/2021 – CURRENT [Espoo, Finland] (GPA: 4.13/5)

- Major Specialization: Control, Robotics and Autonomous Systems
- Minor Specialization: Machine Learning, Data Science and Artificial Intelligence (minor courses)
  - **Machine Learning (5/5)**
  - **Machine Learning with Python (5/5)**
  - **Deep Learning (5/5)**
  - **Artificial Intelligence (4/5)**
  - **Deep Learning with Python**
  - **Machine Learning: Advanced Probabilistic Methods**
  - **Bayesian Data Analysis**
  - **Reinforcement Learning**
  - **Computer Vision**
  - **Machine Learning: Supervised Methods**

Kermanshah University of Technology

Bachelor of Science in Electrical Engineering
23/09/2007 – 19/02/2012 [Tehran, Iran] (GPA: 4.59/5)

WORK EXPERIENCE

Data Engineer
Peyman Gharb Company
01.08.2019 – 31.08.2021 [Kermanshah, Iran]

- Data Analyzing: predicting the best time to exit 20 KV feeders from the network based on the demand and generated electricity from power plants
- MCMC analysis of supply-and-demand using different Bayesian deep learning architectures (analyzing the peak hours of electricity consumption to decide which power units must be cut from the network)

ML Teaching Assistant

Sharif University of Technology

01.01.2022 – Current – Tehran, Iran

- Designing different Machine Learning assignments for master's students
- Instructing students in their programming assignments during the exercise sessions
- Programming the ID3 decision tree of the IRIS dataset on adult's income level and modifying it by pruning algorithms without using Python ML libraries
- Programming the Bayes method of a plant-classifier on the IRIS dataset on flowers without using Python ML libraries
- Programming the Logistic Regression algorithm on a text classifier with Reuters-21578 dataset and comparing it with a Naïve Bayes classifier with the same dataset in terms of accuracy and speed, training the algorithm with k-fold cross validation, analyzing the effects of overfitting of training data on the results
- Linear and nonlinear programming of SVM algorithm in different moods like soft, RBF kernel, and polynomial kernel for classifying the IRIS dataset on adult's income level
- Classifying the MNIST dataset with a multilayer perceptron neural network (MLP)

MCMC Analysis Project Work

Aalto University

11.01.2022 – 03.06.2022 – Espoo, Finland

- Developing several Markov chain Monte Carlo (MCMC) algorithms from scratch to predict the future population of Canadian lynxes as our famous time-series dataset
- Applying MCMC methods to Deep Learning Architectures for Bayesian ML Analysis

Honors

- 1st Rank in 2-stage Regional Physics Competitions, Kermanshah, Iran (2012).
- 1st Rank, Achieving the highest GPA among all 40 university Electrical Power Engineering graduate students with GPA: 4.59/5, Kermanshah University of Technology, Iran (2014-2018).
- 4th Rank, 22nd National Collegiate Scientific Olympiad in Electrical Engineering, First Stage, Kermanshah, Iran (2017).
- 3rd Rank, 23rd National Collegiate Scientific Olympiad in Electrical Engineering, First Stage, Kermanshah, Iran (2018).
- 31st Rank, 22nd National Collegiate Scientific Olympiad in Electrical Engineering, Second Stage, Tehran, Iran (2017).
- 29th Rank, 23rd National Collegiate Scientific Olympiad in Electrical Engineering, Second Stage, Tehran, Iran (2018).

Language Skills

MOTHER TONGUE(S):
Persian

OTHER LANGUAGE(S):

English

Listening	Speaking	Reading	Writing
C1	C1	C1	C1

Finnish

Listening	Speaking	Reading	Writing
A1	A1	A1	A1

Other Skills

Programming Languages
R, Python, JavaScript, Dart, C, C++, Java, MATLAB

Machine Learning
TensorFlow, Keras, PyTorch, scikit-learn, pandas, NumPy

Software & Tools
LaTex, Git, PowerBI

Cloud Services
Microsoft Azure

Databases
MySQL

Web
Django, Flutter

Other skills
Leadership
Time management
Decision-making
Organizational and Excellent Planning skills
Concept Development
Problem solving (problem analysis)
Teamwork
Analytical skills
Creativity