Melika Bahman-Abadi | CV

University of Shahed – Department of Computer Science
Artificial Intelligence and Data Engineer – Saeian Ertebat

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RESEARCH INTERESTS

- Big Data / Machine Learning / Deep Learning
- Data Pip-line Design
- Pattern Recognition
- Automatic Speech Recognition

EDUCATION

- **Master of Computer Science**   Sep, 2019 – Jan, 2022
  University of Shahed   *Tehran-Iran*
  - Data Mining
    - Thesis: Analysis and Extraction of Tempo-Spatial Events in an Efficient Archival CDN with Emphasis on Telegram
- **Bachelor of Computer Engineering**   Sep, 2015 – June, 2019
  Shariaty Technical and Vocational University   *Tehran-Iran*
    - Software Engineering
    - Thesis: Design and Implementation of Library Management System
- **Diploma in Mathematics and Physics**   Sep, 2014 – June, 2015
  Dr. Hesabi High School   *Tehran-Iran*
  - Mathematics and Physics

WORK EXPERIENCE

- Artificial Intelligence and Data Engineer
  Saean Ertebat   2021 - present
- Software Engineer
  5thD systems   2018 - 2020
- Teacher Assistant
  - *Shahed University*
    - Data Visualization   2021
      - Instructor: Dr. M. B. Ghaznavi-Ghoushchi
- Teaching
  - Python   2020-2021
  - Machine Learning   2020-2021
  - Data Visualization   2021

PROJECTS

- Object Tracking [*Part Time Job*].   2022
  - Object tracking implemented with YOLOv4, DeepSort, and TensorFlow. YOLOv4 is a state of the art algorithm that uses deep convolutional neural networks to perform object detections.
- Automatic Speech Recognition in Intelligent Voice Messaging Systems [*Saean Ertebat Company*].   2021-2022
  - Implement ASR system for intelligent contact centers and analysing audio data using deep learning. Working in Research and Development team. Most of my tasks has been related to developing AI models.
- Data Augmentation for ASR System [*Saean Ertebat Company*].   2021-2022

- Creating Data Augmentation using frequency modification and blending noise with audio.
○ Audio Data Pipe-line Handling [*Saean Ertebat Company*].   2021-2022
- Analysis thousands of phone calls audio files in a big team as a strong team leader.
○ Genetic Analysis [*Part Time Job*].   2022
- Detecting different genomes strings in biotechnology using python.
○ AI-EVL [*Part Time Job with Published Paper*].   2021
- Implementing an AI Annotated Recommendations in an Efficient Visual Learning Environment with Emphasis on YouTube. This system is designed to be embedded with online learning tools and platforms to enrich their curriculum.
○ Web Scraper [*Part Time Job*].   2020
- Crawling airport data and analysing COVID-19 disease using number of airport flights from various cities.
○ State-of-Art topics Analysis [*Part Time Job*].   2020
- Crawling Springer papers data and visualizing hot topics for research
○ DigiKala Sentiment Analysis [*Part Time Job*].   2019
- Deploy NLP on customer comments with Python

Courses

○ Data Visualization	[Winter 2021]		○ Artificial Intelligence	[Winter 2019]	
○ Machine Learning	[Winter 2020]		○ Neural Networks	[fall 2018]	
○ Big Data	[Winter 2020]		○ Database Design	[fall 2016]	
○ Data Mining	[Winter 2019]		○ Algorithm Design	[fall 2016]	
○ Advanced Algorithm Design	[Winter 2019]		○ Data Structure	[fall 2015]	
			○ Advanced Programming (OOP)	[Winter 2015]	

COMPUTER SKILLS

Programming/Scripting
- Python
  - Django
  - Pandas
  - Numpy
  - SciPy
  - XGBoost
  - SciKit-Learn
  - Beautifulsoup
  - Selenium
  - Scrapy
  - TesnsorFlow
  - PyTorch
  - Matplotlib
  - Seaborn
  - Bokeh
  - Plotly
  - pydot
  - PyPlot
- Java
- C++
- C#
  - .Net
- Javascript
  - Client
    - jQuery,
- HTML
- CSS
  - Bootstrap

Big Data / Storage / Virtualization / Other
- Machine Learning
- Deep Learning
- Version Control
  - Git
- Databases
  - MySQL
  - SQL
  - MongoDB
  - Neo4j
- OS
  - Linux
    - Ubuntu

LANGUAGE SKILLS

- Persian   Native
- English   Fluent
  - Pre-IELTS
    - Reading: 100%
    - Listening: 100%
    - Speaking: 100%
    - Writing: 100%
- German   Fluent
  - Fundamental

Refrences

- Dr. M. B. Ghaznavi-Ghoushchi
  - Positions: Assistant Professor
  - Email: ghaznavi@shahed.ac.ir
- Mr. Soheyl Tehranipour
  - Positions: Chief Executive Officer at Saean Ertebat (SENA) Co.
  - Email: soheil.tehranipoor@gmail.com
- Mr. Mahdi Mohammadizade
  - Positions: Senior Software Engineer at SENA Co.
  - Email: ma.mohammadizadeh@gmail.com