

Amirmahdi Aboutalebi

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Computer Scientist — Data Scientist — Machine Learning Engineer
Artificial Intelligence, M.Sc at Genova University

ACCOUNT

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EDUCATION

- Amirkabir University of Technology** Tehran, IRAN
Bachelor of Computer Science: GPA: 3.5 (16.68/20) (3.8 (17.51/20) - Last 2 years) 2019 - 2023
Courses: Artificial Intelligence, Data Mining, Linear Algorithms, Operating Systems, Linear Optimization, Cryptography.
- Università degli Studi di Genova** Genova, Italy
Computer Engineering Artificial Intelligence 2023 - 2025

SKILLS

- Languages: Python, C++
- ML Libraries: Tensorflow, openCV, Scikit-learn
- Statistical Analysis : Numpy, Pandas
- NLP Libraries: Spacy, NLTK
- Visualization: Seaborn, Matplotlib (Waffle, Grid)
- DB: SQL, MongoDB, Casandra, Neo4j

WORK EXPERIENCE

- Front-End Developer (React)** Freelancer
I worked just for Learning better and acquaint myself with working Oct 2020 - Jun 2021
- Full-Stack Web Developer (React and Laravel)** PuzzleStu
I started this position with an internship in Back-End Mar 2021 - Sep 2021
- Machine Learning Engineering** Self-Employment
Working on Kaggle Datasets and Analyzing the real data Jun 2022 - present

TEACHING EXPERIENCE

- Artificial Intelligence (Amirkabir University)** Dr.Mehdi Ghatee
Holding TA sessions for extra work, answering students' questions and making a question. Sep 2022 - Present
- Introduction to Computer and Programming (Amirkabir University)** Dr.HajiMohammadi
Holding TA sessions for extra work, answering students' questions and making a question. Sep 2022 - Present
- Data Structure and Algorithm (Razi University)** Dr.Farzane Salari
Holding TA sessions for extra work, answering students' questions and making a question. Sep 2022 - Present
- Python Programming Tutor** Self-Employ
Full python and algorithm programming Jun 2021 - Sep 2021

PROJECTS

- Generating Persian Alphabet Hand Writing - (Kaggle)
 - Supervise : Dr.Mostafa Shamsi
 - Python, PyTorch, Tensorflow
 - Using MobileNet v2 for discriminator in conjunction with Resnet
 - Generating the Persian alphabet handwriting letters
- Income Prediction (Regression) - (Kaggle)
 - Algorithm: Linear and non-linear Regression, Bagging Algorithm (Voting, RandomForest, ..), Boosting Algorithm (AdaBoosst, XGBoosting), Shallow Neural Network, Trees,..
 - Data: Were scraped from internet and cleaned and even published in Kaggle (Data Mining Course)
 - Data Cleaning, Data Visualization, Data evaluation, Handling Outliers
 - BI Dashboard (PowerBI, Tableau)

- Stroke Prediction (Classification) - (Kaggle)
 - Algorithm: RandomForest (Hyperparameter Tunning)
 - Data: Heart Stroke from Kaggle
 - Data Cleaning, Data Visualization (Waffle Plot, Gridding, ...) , Imbalanced data Handling, Handling Outliers (Winsorization, log,..)
 - BI Dashboard (PowerBI, Tableau)
- Kaggle Projects - (Kaggle)
 - EDA Projects
 - Machine Learning Projects
 - Computer Vision Projects
 - New and Clean Datasets
- Artificial Intelligence - (GitHub)
 - Solving 8-puzzle problem using A* algorithm.
 - Implementation of Genetic and SA algorithms.
 - Implementation of tic-tac-toe game using minimax algorithm
 - Detecting Persian spam emails using Naive Bayes
 - Tic Toc Toe Game
- ML, DL, Data Mining - (GitHub)
 - Student Academic Performance Prediction by using Decision Tree Algorithm using Weka
 - Classification Based on Decision Tree Algorithm for Machine Learning using Weka
 - Census Income Data Set of UCI Data set using Decision Tree
 - Glasses Recognition using Classification with TensorFlow
 - Digit Recognition with TensorFlow
 - Fuel Consumption using Sklearn (Regression)
 - Fruit Recognition : Neural Network and Transport Learning using TensorFlow
- Web Developing
 - Puzzle-Stu Front-End Developing - (PuzzleStu.com)
 - Puzzletv Full-Stack Developing - (GitHub)
 - Personal Blog with Laravel - (GitHub)

HONER AND COURSE

- **Generative Adversarial Networks (GANs) Specialization** Coursera
 - GAN Specialization Course: (Deeplearning.ai)(Sharon Zhou)* *June 17 - 2023*
 - Build Basic Generative Adversarial Networks (GANs) - (Certification)
 - Build Better Generative Adversarial Networks (GANs) - (Certification)
 - Apply Generative Adversarial Networks (GANs) - (Certification)
- **Machine Learning Specialization** Coursera
 - Machine Learning Specialization Course: (Deeplearning.ai)(Andrew NG)* *Sep 20 - 2023*
 - Supervised Machine Learning: Regression and Classification - (Certification)
 - Advanced Learning Algorithm - (Certification)
 - Unsupervised Learning, Recommenders, Reinforcement Learning - (Certification)
- **Deep Learning Specialization** Coursera
 - Deep Learning Specialization Course: (Deeplearning.ai)(Andrew NG)* *Dec 11 - 2023*
 - Neural Networks and Deep Learning - (Certification)

- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization - (Certification)
- Structuring Machine Learning Projects - (Certification)
- Convolutional Neural Networks - (Certification)

• Data Science

IBM
Nov 11 - 2023

Data Science Specialization Course: (IBM)

- What is Data Science? - (Certification)
- Tools for Data Science - (Certification)
- Data Science Methodology - (Certification)
- Python Project for Data Science - (Certification)
- Python for Data Science, AI and Development - (Certification)
- Databases and SQL for Data Science with Python - (Certification)

• Natural Language Processing

Coursera
Peresent

Natural Language Processing Specialization: (Deeplearning.ai)(Andrew NG)

- Natural Language Processing with Probabilistic Models - (Certification)
- Natural Language Processing with Classification and Vector Spaces - (Certification)

• DeepLearning Development

Coursera
April 15 - 2023

Deep Learning Specialization for Practical usecase of Tensroflow

- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning - (Certification)
- Convolutional Neural Networks in TensorFlow - (Certification)
- Natural Language Processing in TensorFlow - (Certification)

• Introduction to Large Language Models

Google Cloud
Apr 1 - 2024

• Generative AI with Large Language Models

Coursera
April 15 - 2024

• Machine Learning Foundations

Coursera
May 10 - 2022

Machine Learning Foundations: A Case Study Approach (University of Washington)

• Introduction to Machine Learning

Kaggle
Oct 4 - 2022

Introduction to Machine Learning (Decision Tree and RainForest)

• Computer Vision

Kaggle
Oct 5 - 2022

Computer Vision

• Data Cleaning

Kaggle
Oct 5 - 2022

Data Cleaning

• Pandas

Kaggle
July 29 - 2022

Introduction to using Pandas for Data Analyzing

• Django Web Framework

Coursera(Meta)
March 29 - 2023

Zero To Hero Course

EXTRA FAMILIER TOOLS

- | | |
|-------------------------------|--|
| • PHP (Laravel, LiveWire) | • Python (Pandas, Numpy, Matplotlib,...) |
| • JavaScript(React, Vue) | • Scikit-Learn (Regressions, Classification, Clustering,...) |
| • Weka (elementary knowledge) | • TensorFlow (NN, CNN) |