Armin Ashrafi

B.Sc in Computer Science

Armin Ashrafi
Number 16 Alvandi, 12 Farvardin
Tehran, Iran

Phone: +989109862441
Email: arminneashrafi@gmail.com
Github: https://github.com/Arminismus
LinkedIn: Armin Ashrafi | LinkedIn

Work Experience

Chashmyar.ir Startup / Computer Vision Internship
January 2023 - March 2023, Tehran

1. Modeling Making CNN Models for Keratitis Recognition on proprietary ocular datasets (Research Project)
2. Web scraping: finding and cataloging eye datasets.
3. Writing and Editing of research papers/ Editing Manuscripts
4. Data Collection and Management: Using data versioning tools like Git for Data.

Shastad.ir E-Learning / Computer Science Instructor
August 2021 - PRESENT, Tehran

1. Programming Course Material Code for Each Video Subject
2. Video Production Quality Control: Verifying the Video Correctness and Information
3. Courses Produced: Linear Algebra, Probability theory, Python, Binary Logic.
4. Pedagogical Planning of each course
5. Video Production Consultation

Respina Talk and Iran Mehr Language Institutes / Foreign Language Teacher
September 2017 - September 2022, Tehran

English (A1-C2), French at A1 - A2 Levels.

Education

Islamic Azad University (IAU) B.Sc / Computer Science
December 2017 - June 2023, Tehran
Final GPA: 3.72

Salam Mofid / High School Diploma
Final Average Grade: 19.27 of 20
September 2013 - June 2017, Tehran

Skills

Languages:

1. *English IELTS Score 8.5:*

   Listening 9.0, Reading: 8.0, Writing: 7.5, Speaking: 8.5

2. *Persian Native*
3. *French CEFR B2*
4. *German CEFR A2*

Coding: *Python, C++, R, Functional understanding of SQL and relational databases, OOP principles, Agile Development*

ML/AI: *Tensorflow- Keras, Pytorch, Sci-kit Learn (and most learning algorithms Associated with them (e.g. regression, clustering, …)), Tree-based methods, bagging, boosting.*

Deep Learning: *Computer Vision, Tabular Datasets and Deep Reinforcement Learning (Courses and Textbooks)*

Relevant Mathematics: Linear Algebra, Probability Theory, Hypothesis testing, General Mathematical Maturity for Proof oriented Research

RL: *Theoretical Background (Courses and Textbooks) and implementations of various example problems (Most are available on Github)*

***Soft-Skills*:**

- **Passion and Motivation for Problem Solving**
- **Analytical Thinking, Divergent (Lateral) Thinking**
- **Attention to Detail**
- **Effective Communication and Teamwork**
- **Independent Thinking and Motivation**

Misc: Teaching, Web Scraping, Academic Research, Curiosity

Relevant Projects

Tabular Machine Learning:

1. *Disease Detection using Decision-Trees (Breast Cancer and other publicly available datasets)*
2. *K-means Clustering for category identification (Identifying Product interests of Users in a Shopping website)*
3. *Various other small projects and exercises*

Deep Learning:

4. *Transfer Learning: Image Clustering Using VGG16 and InceptionV3*
5. *Autoencoders: Image Denoising Tensorflow and Keras for Keratitis Classification*
6. *Deep Learning: Voice to Pic Using CNNs to detect Keywords in Waveforms (as part of my involvement in my bachelor's degree project)*

Reinforcement Learning:

1. *Game of Pig, Tabular Q- Learning*
2. *Programming Assignments for the Coursera RL Course*
3. *DQN, TD3, DDPG on classical OpenAI Environments*

4. *Teaching: the book Grokking Deep Reinforcement Learning*

Miscellaneous:

1. *Web Scraping: Finding Ocular datasets using an automated Web Crawler*
2. *Teaching Assistantship: Combinatorics, Abstract Algebra*
3. *Probability Simulations for my Probability course*
4. *Numerical Solutions to ODEs + Illustrations*
5. *Genetic Algorithms: Topics in Computer Science Course*

Relevant Courses

RL:

1. *Reinforcement Learning Specialization: Coursera*
2. *Reinforcement Learning By David Silver*
3. *Sutton and Barto: Reinforcement Learning*
4. *Grokking Deep Reinforcement Learning*

DL/ML:

1. *Deep Learning Specialization by Deeplearning.AI*
2. *Machine learning Specialization: Deeplearning.AI*
3. *Faradars: Machine Learning*
4. *Maktabkhooneh: Python Programming*
5. *Object Detection via YOLO: Youtube*

Awards

Top student: Top Student of the year at IAU - 2021

CS Student Committee: Member of the Student CS Committee at IAU