Ali Momeni

Aleshtar, Lorestan, Iran

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Linkedin Website Github

Education

- **Shahid Chamran University of Ahvaz** — **Ahvaz-Iran 2019-2023**
  B.Sc Computer Engineering
  Thesis: Classification of medical images of epilepsy patients using deep neural networks
  - **Total CGPA**: 16.08/20 (3.35/4)
  - CGPA of the last two semesters: 17.70/20 (3.68/4)
  - CGPA of Specialized Courses: 17.60/20 (3.63/4)
  - Thesis grade: 4/4
  - **Advisors**: Dr. Ali Bakhthamat, Dr. Seyed Enayatallah Alavi

- **Allameh Tabatabaei High School** — **Aleshtar-Lorstan-Iran 2019**
  Diploma in Mathematics
  - **GPA**: 18.21/20 (3.76/4)

Research Interests

- Deep Learning (Computer Vision and Natural Language Processing)
- AI for Medicine (Diagnosis, Prognosis and Treatment)
- Machine Learning and Data Mining
- Robotic Technologies in Pharmacy and Medicine
- Human-Computer Interaction
- 3D Medical image Reconstruction and Visualization

Related Courses

- *Fundamentals of Computer Vision*: A
- *Principles of Robotics:* A
- Fundamentals of computational intelligence: A
- *Databases*: A
- Fundamentals of Speech and Language Processing: A
- *Theory of Languages and Automata: A*
- Fundamentals of wireless networks: A

Academic Projects

- **Classification of medical images of epilepsy patients using deep neural networks,** Classify medical images of epilepsy patients using deep neural networks "*Bachelor's Thesis*", Professors A. Bakhthamat, S.E. Alavi, 2023.
- **Classification of plant disease images,** Using Transfer Learning (AlexNet), implemented with Keras and Tensorflow, Project of the Course **"***Fundamentals of computer vision***",** Prof F. Abbasi, 2023
- **To design a robot capable of executing tasks such as linear and rotational movements, wall following, and the implementation of search algorithms (A*)**. This project covers a comprehensive series of steps, ranging from the initial design phase to the implementation of artificial intelligence algorithms, Using python and Webots Simulation, Project of the Course **"**Principles of robotics**",** Prof A. Ghanbarzadeh, 2023

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Professional *Projects*

- ***Analysis of electricity* consumption by subscribers of Behbahan city, Iran(Sreamlit app):** The project analyzed electricity consumption patterns in Behbahan using data visualization, aiming to enhance sustainable management through a Streamlit app.
- ***Chest X-ray Pneumonia Classification:*** Deep learning classifies chest X-rays accurately.
- ***Average car Prices - Brazil:*** Project improved R2 score over 99% using advanced regression algorithms.
- ***Fake/True news classification:*** A Neural Language Model classified news articles as fake or real using Scikit-learn and NLTK algorithms

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ACADEMIC EXPERIENCE

- Teaching Assistant for software engineering — Ahvaz-Iran / Jan-Jul 2023
- Teaching Assistant for software engineering Lab — Ahvaz-Iran / Jan-Jul 2023
- Teaching Assistant for Fundamentals of Programming — Ahvaz-Iran / Jan-Jul 2022
- Teaching Assistant for advanced programming — Ahvaz-Iran / Sep- Dec 2021

Related Professional Experiences

- **Behbod Gostar Andishe - Part-time** — **Ahvaz-Iran**
  - Implementation of machine learning algorithms and image processing — **Nov 2022 - Dec 2023**

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Certificates

- Advanced Learning Algorithms — **Coursera Feb 2024**
- Supervised Machine Learning: Regression and Classification — **Coursera Feb 2024**

Skills

- **Programming Skills**
  Python, SQL, C/C++, Java, R(Basic), VHDL/Verilog, HTML, CSS
- **Software Skills**
  Keras, Tensorflow, Pytorch, Scikit-learn, Numpy, Pandas, Matplotlib, Seaborn, Plotly, Stremlit, OpenCV, NLTK, BeautifulSoup, Jupyter notebook/lab, Google Colab, MySQL, PostgreSQL, Linux, Git/Github, Visual Paradigm, Xilinx ISE, Webots, LATEX, Django, FastAPI, Excel**,** Bash
- **English and GRE Tests**
  English: **B2** / **IELTS 6** (S: 6.5, L: 6, W: 6, R: 5.5) (Oct 4 2024)
  GRE General Test: date TBD
