Ali Samadian

Contact details

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🌐 Tehran, IR

Social details

- Portfolio
- Linkedin
- GitHub

Skills

Data Science:
- Expertise: Computer Vision, Generative Models, Attention Mechanisms, NLP, Audio Processing, Time-Series Analysis, Medical Imaging, Geo-Spatial Data
- Libraries: PyTorch, PyTorch Lightning, Mlxtend, Hugging Face, Scikit-learn, SciPy, OpenCV, Librosa, Pydicom, SimpleITK, NiBabel, GeoPandas, OSMnx, Shapely

DevOps:
- Tools: Docker, Docker Compose, Docker Swarm, Git, GitHub, GitHub Actions
- Concepts: CI/CD, Load Balancing, Microservice and Monolithic Architectures

Backend:
- Frameworks: Django, Django Rest Framework (DRF), Celery
- Databases: PostgreSQL, Redis
- Concepts: API Protocols, Authentication and Authorization

Frontend:
- Tools: HTML5, CSS3, SASS, JS (ES6+), Bootstrap, AJAX

Brief introduction

Data Scientist and Full-Stack Developer with 5+ years of experience engineering and deploying end-to-end, scalable solutions. My expertise lies in architecting systems that are not only technically powerful but also efficient and maintainable, from initial data processing to final user interface.

Data Science: Strong proficiency in Machine Learning and Deep Learning, with deep expertise in generative models (GANs, VAEs, Diffusion Models), computer vision architectures, and building complex data pre/post-processing pipelines.

Full-Stack: Skilled in developing secure, high-performance back-ends with Django and responsive front-ends using modern JavaScript. Experienced in containerization with Docker, CI/CD automation, and deploying monolithic/microservice-based architectures.

Experience

Freelance Data Scientist & Full-Stack Developer   **2019.02–Present**
◇ Architected, developed, and maintained full-stack applications for a diverse client base. Collaborated with teams to deliver high-quality, scalable software solutions from concept to deployment.

- Cyberuni: Engineered a comprehensive Learning Management System from the ground up, featuring real-time content editing capabilities. Implemented and deployed a deep learning model for automatically generating video subtitles in Persian, significantly improving content accessibility.
  Stack: Docker, Nginx, Django, DRF, PostgreSQL, Redis, Django Templates
- Hesabraslaw: Developed a fully-featured legal consultation platform with a robust appointment booking system. Built a real-time, asynchronous chat system for secure lawyer-client communication using WebSockets.
  Stack: Docker, Nginx, Django, PostgreSQL, Redis, Celery, channels, WebSockets
- Additional Projects (shared with clients approval): Developed static portfolio websites (e.g., Arya Akhavan , Niloufar Fuladi) using pure HTML, CSS, and JS to meet specific client presentation needs.

Computer Technician at *Rastin Arqam*   **2013.09–2016.01**
◇ Provided network setup, maintenance, and technical support for local banks and ISP providers, including VPN configuration and troubleshooting.

Education

Master's in Data Mining - *Kharazmi University*   **2022–2025**
  ◇ Full Tuition Waiver Scholarship
  ◇ GPA: *3.1/4.0*
  ◇ Thesis (in preparation): *Generative Attraction Field Maps for Style-Specific Building Footprint Synthesis*

Bachelor of Civil Engineering - *Karaj Islamic Azad University* **2010–2016**