Sina Rahimian

| sina82rahimian@gmail.com | [Linkedin](#) | [Github](#) | [Website](#)

EDUCATION

Islamic Azad university science and research branch   Tehran, Iran
Bachelor of Science in Computer Science   *Sep. 2021 – Oct.2025*
- GPA:16.25/20

EXPERIENCE

Contributor   Sep 2024 – Present
Medx   *Remote*
- Collaborated with an interdisciplinary startup team to intergrate AI innovations into medical education for future clinicians.

Board Member & Co-founder   Apr. 2024 – Apr.2025
Tensorphilia   *Remote*
- Facilitated weekly online reading group for 50+ collaborative Iranian students on machine learning textbooks, fostering a collaborative learning environment and improving understanding of complex technical concepts, demonstrated by increased participation.
- Led an online learning community of 800+ active members on Telegram.

Undergraduate Research Assistant   Jul.2024 – Jan.2024
Islamic Azad university science and research branch   *Tehran, Iran*
- Under the supervision of Dr. Amineh Amini
- Designed Ai driven solution to enhance efficiency in healthcare registry management workflow .
- Co-Conducted exploratory research on applying few-shot learning to plant disease classification.

Undergraduate Teaching Assistant   Feb.2024 – Jul.2024
Islamic Azad university science and research branch   *Tehran, Iran*
- Course: Artificial Intelligence
- Under the Supervision of Dr.Kazem Kani
- Created targeted educational resources that bridge theoretical concepts with practical programming skills. Guided 50+ undergraduate students through core AI concepts from Russell's "Artificial Intelligence: A Modern Approach," achieving a 95% average satisfaction rating based on student feedback surveys.

PROJECTS

Healthcare Assistant Dashboard | *Python, Streamlit, LightRAG, Medgemma*
- A platform designed to help clinicians, nurses, and patients with medical image analysis, clinical data retrieval, and general healthcare support.
- The system leverages advanced local-hosted multimodal language models and retrieval-augmented generation (RAG) to provide accurate, context-aware answers and reports.

An overview of the healthcare system in the age of AI | *System Design, Data flow Diagram, Event modeling*
- The schema about automating patient check-in with AI to streamline data entry, validate patient information, and optimize scheduling—boosting both efficiency and patient experience. The system uses machine learning and NLP, backed by explainability, reliability, and privacy-first design. Framework includes a clear data-flow diagram emphasizing secure data handling, compliance, and transparency.

Tensorphilia Projects | *Python, PyTorch, Scikit-learn, NumPy, Matplotlib*
- A collection of collaborative, beginner-friendly educational projects designed to teach core data science and machine learning concepts. Covers methods like EDA, PCA, and classical ML, applied to real-world problems such as heart disease, diabetes, NAFLD detection, and diamond price prediction. Open-source on GitHub to encourage learning, collaboration, and hands-on practice.

Cancer Image Detection With PyTorch | *Python, PyTorch*
- Built a deep learning model in PyTorch to detect metastatic cancer in pathology image patches using the PCAM dataset.Leveraged pre-trained CNNs, transfer learning, and data augmentation to achieve accurate medical image classification with limited data.

Technical Skills

Languages: Python, SQL
Machine learning: Pytorch, Scikit Learn, Random Forest, SVM, KNN, XGBoost, ANN, CNN
Developer Tools: Git, GitHub, Linux Ubuntu, Docker, Virtual machines, Streamlit
Data Science: Data Analysis, Data Visualization, Statistical Modeling

Certificates

Machine Learning Specialization – DeepLearning.AI
AI in Healthcare Specialization – Stanford Online
AI/ML Fundamentals in Precision Medicine – Stanford Data Ocean
SQL for Data Science – University of California, Davis
Mathematics for Machine Learning: Linear Algebra – Imperial College London
Data Analysis with Python – freeCodeCamp
Cancer Image Detection with PyTorch – IBM Skills Network
Optimization in Modern AI Workshop – Tehran Polytechnique
OpenCV Bootcamp – OpenCV University
Deep Learning for Life Sciences – RSG Iran

Languages

English – Full professional proficiency (C1)
German – Limited proficiency (B1)
Persian – Native