Amirhassan Adeli

AI & Data Science Engineer

Tehran, Iran · +98 993 805 9549 · amirhassanadeli.ai@gmail.com · Military Service: Completed

LinkedIn · GitHub · amirhassanadeli.com

PROFESSIONAL SUMMARY

M.Sc. student in Software Engineering with hands-on experience building end-to-end Machine Learning and Deep Learning solutions. Passionate about Computer Vision, NLP, and RAG systems. Proficient in Python, TensorFlow, PyTorch, Scikit-learn, LangChain, and modern AI tooling. Delivered practical projects including medical image classification, recommender systems, and local RAG applications. Seeking opportunities to contribute to real-world AI products and research.

TECHNICAL SKILLS

Programming	Python, SQL
Data Science	NumPy, Pandas, Matplotlib, Scikit-learn
Machine Learning	Supervised & Unsupervised Learning, Feature Engineering, Model Evaluation, Cross-Validation, Hyperparameter Tuning, Ensemble Methods
Deep Learning	TensorFlow, Keras, PyTorch, CNN, Transfer Learning, Fine-Tuning, Data Augmentation
AI & LLM	LangChain, RAG (Retrieval-Augmented Generation), Ollama, Prompt Engineering
Backend & DB	Django, Django REST Framework, REST API, PostgreSQL
Tools	Git, GitHub, Linux, Docker, Streamlit, MLOps
Focus Areas	Computer Vision, Signal Processing, NLP, Model Optimization, TinyML & Embedded AI

SELECTED PROJECTS

Pneumonia Detection System · **Deep Learning / Computer Vision**
Built a CNN-based classifier using Transfer Learning to detect Pneumonia from chest X-ray images (Normal vs Pneumonia). Applied data augmentation and fine-tuning for improved accuracy.

Local RAG System for Document Intelligence · **LLM / NLP**
Developed a local Retrieval-Augmented Generation system with LangChain and Ollama. Users upload PDFs/documents and query them through a personal AI assistant.

Netflix Recommender System · **Machine Learning / Streamlit**
Content-based recommender that returns 10 similar movies/series given a title. Built with Python and deployed as an interactive Streamlit application.

Chronic Kidney Disease Prediction · **Healthcare Analytics**
Achieved high accuracy (~98%) on the Kaggle CKD dataset using classical ML models. Performed feature analysis and model evaluation for medical risk prediction.

EDUCATION

M.Sc. in Software Engineering — In Progress
B.Sc. in Software Engineering — Islamic Azad University (2017 – 2022)

LANGUAGES

Persian (Native) · English (Professional Working Proficiency)