Amirhassan Adeli

AI Engineer, Inference

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PROFESSIONAL SUMMARY

AI Engineer, Inference with hands-on experience building practical Machine Learning and Deep Learning applications across Computer Vision, Language Models, and NLP. Experienced with Python, PyTorch, TensorFlow, Scikit-learn, LangChain, RAG, Ollama, Django REST Framework, Docker, and Linux. Built projects including medical image classification, local document intelligence with RAG, recommender systems, and healthcare prediction models. Focused on connecting AI models with reliable, deployable real-world applications.

TECHNICAL SKILLS

Programming: Python, SQL

Machine Learning: Scikit-learn, Supervised & Unsupervised Learning, Feature Engineering, Model Evaluation, Cross-Validation, Hyperparameter Tuning, Ensemble Methods

Deep Learning: PyTorch, TensorFlow, Keras, CNN, Transfer Learning, Fine-Tuning, Data Augmentation

Computer Vision: OpenCV, Image Classification, Medical Imaging

Language Models & Generative AI: Transformers, LangChain, RAG, Ollama, Prompt Engineering

Data & Scientific Computing: NumPy, Pandas, Matplotlib, SciPy

Backend & APIs: Django, Django REST Framework, REST API, PostgreSQL

Deployment & Tools: Docker, Linux, Git, GitHub, Streamlit

Focus Areas: AI Inference, Computer Vision, Language Models, Signal Processing & Time-Series ML

WORK EXPERIENCE

AI / Machine Learning Engineer — University of Medical Sciences | *2024 – Present · Tehran, Iran*

- Worked on Machine Learning and Deep Learning applications in healthcare and medical data.
- Developed and evaluated AI models for healthcare-related prediction and analysis tasks.
- Applied Python, PyTorch, TensorFlow, and data processing techniques to practical projects.
- Worked with medical datasets and contributed to developing AI-based solutions.
- Focused on applying Computer Vision and Machine Learning techniques to real-world healthcare problems.

SELECTED PROJECTS

Pneumonia Detection System — Computer Vision / Deep Learning

Built a CNN-based classifier using Transfer Learning to detect Pneumonia from chest X-ray images. Applied data augmentation and fine-tuning.

Local RAG System for Document Intelligence — Language Models / RAG

Developed a local Retrieval-Augmented Generation system with LangChain and Ollama. Users can upload documents and query them through a personal AI assistant.

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)