Mohammad Amin Efaf
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Course	College/University	Year	CGPA / 20
B.E. in Computer Engineering	University of Guilan	2021-25	17.47
High School Diploma (Math)	Allameh tabataba'i	2018-21	19.60

SKILLS & INTERESTS

- **Programming Languages**: Python, Java
- **Frameworks & Libraries**: Flask, Pandas, OpenCV, YOLOv11
- **Databases & Tools**: SQL, Git/GitHub
- **Interests**: Artificial Intelligence & Machine Learning

PROFESSIONAL EXPERIENCE

- **Java Developer Intern** — Amin Optical Communications Technology (FANA) [Jul'25–Oct'25]

PROJECTS

- **Persian Question Answering System** | Dr. Yasaman Boreshban [Aug'25-Sep'25]
  - Fine-tuned Llama-3.2-1B model with LoRA/QLoRA on PQuAD dataset achieving competitive F1-Score and Exact Match metrics for Persian question answering tasks.
  - Implemented RAG system with fine-tuned multilingual embedding models (MiniLM, DistilUSE, E5-Base) using word-based and sentence-based chunking strategies with TF-IDF and BM25 retrieval.
  - Evaluated semantic similarity using Cosine Similarity and MRR metrics; integrated vector databases (FAISS/Chroma) for optimized retrieval performance.

- **Class Vision - Face Recognition System** | Dr. Mohammad Salehi [Jul'25-Sep'25]
  - Developed automated attendance system using OpenCV and LBPH face recognition algorithm with Haar Cascade detection, achieving real-time multi-face recognition with confidence scoring.
  - Implemented complete student management pipeline including face capture (100+ samples per student), model training, attendance tracking with start/stop controls, and automated record generation.
  - Built Tkinter-based GUI with voice feedback (pyttsx3), CSV-based data management, and attendance analytics featuring percentage calculations and subject-wise organization.

- **Vehicle Counting** | Dr. Alireza Akoushideh [Dec'24-Jan'25]
  - This project focuses on detecting and counting vehicles in various conditions, such as day and night, using the YOLOv11 model. The system integrates real-time object detection, tracking, and pre-processing techniques to improve accuracy.

- **StudySphere** | Dr. Taha Yasin Rezapour [Dec'24-Jan'25]
  - StudySphere's UI/UX design ensures a seamless, intuitive learning experience across all devices, enhancing engagement for learners and educators.

- **HSPICE Circuit Simulation** | Dr. Mahdi Aminian [Jul'25-Jul'25]
  - This project focuses on designing and simulating a 2-bit comparator circuit using HSPICE. The system evaluates transistor sizing, delay parameters, and power consumption.

- **File Monitoring** | Dr. Mohammad Salehi [Jun'24-Jun'24]
  - File Monitoring is a simple bash script designed to monitor changes in the files and directories of a specified directory. It detects and reports any additions or deletions of files in real-time.

- **Neon Blaster** | Dr. Mahdi Aminian   [Jan'24-Feb'24]
  - Neon Blaster, a retro-style arcade game developed using VHDL and programmed onto an FPGA platform.

- **UGI Car Robot Control Unit** | Dr. HamidReza Ahmadifar   [Feb'24-Feb'24]
  - UGI Car Robot Control Unit, powered by the versatile ATMega32 microcontroller.

- **Clinic messenger** | Dr. Seyed Abolghasem Mirroshandel   [Jun'22-Jun'22]
  - Client-server program for instant messaging.

- **Clinic management** | Dr. Seyed Abolghasem Mirroshandel   [Apr'22-Apr'22]
  - Object oriented program for managing the clinic.

- **Clinic Data Management** | Dr. Seyed Abolghasem Mirroshandel   [Apr'22-Apr'22]
  - This program can take the information of a clinic and categorize it into separate files (File handling).

- **Battleship** | Dr. Seyed Abolghasem Mirroshandel   [Feb'22-Feb'22]
  - Battleship is a strategy game where players engage in a naval battle on an nxn game board.

CERTIFICATIONS

- **Trustworthiness in Deep Learning - Department of Computer Engineering, Sharif University (Sep 2024)**

- **Introduction to Deep and Machine Learning - Department of Computer Engineering, Sharif University (Aug 2024)**

- **Scrum Foundations - Ultima Training Tech Co. (Mar 2024)**

- **CS50x Certificate - CS50 (Dec 2023)**

- **WordPress Certification - Qorpi (Aug 2022)**

- **Advanced level English course completion in the Adults Department of the ILI - Iran Language Institute (Jun 2022)**

NOTABLE COURSES

- **Artificial Intelligence and Expert Systems - 18.31**

- **Image Processing - 17.5**

- **Information Technology - 20**

- **Database - 18.65**

- **Logic Circuits - 19**

- **Computer Architecture - 19.40**

- **Internet Engineering - 19.5**

- **Linear Algebra - 19.30**

- **Network Security - 19.50**

- **Natural Language Processing - 17.75**

- **Hardware/Software Co-Design - 18.30**