Parisa A. Mahdavi

Montreal, QC, CA | +1 (438) 304-2060 | Gmail
ParisaAMahdavi | Portfolio | GitHub

SUMMARY

With 3+ years of experience, I am a seasoned Machine Learning Developer, deeply passionate about leveraging data for strategic business decisions. My strength lies in fostering cross-team collaboration within the agile framework, contributing to cohesive and effective project execution. With hands-on experience in merging ML algorithms with embedded systems, employing advanced acceleration methods.

TECHNICAL SKILLS

- **Programming Language**: Python, SQL, R.
- **ML Platform**: PyTorch, Keras.
- **Data processing**: Pandas.
- **Python Libraries**: NumPy, scikit-learn,
- **Visualization tools**: Tableau.
- **Solid understanding of AWS.**
- **Hardware Description Languages:** VHDL, Verilog
- **Expert in Git for version control.**

SOFT SKILLS

- **Excellent Team-Working skills.**
- **Excellent communication skills (English).**
- **Agile software development.**

EXPERIENCE

Done Tech, Tehran — *Machine Learning Developer*

July 2021 - Aug 2023

Done is An AI-powered platform streamlining Smart TV usage and enhancing user experiences by effortlessly discovering ideal movies, music, and games.

- Collaborated with a data analytics team to collect required data based on business needs and clean and manipulate them using Microsoft Excel and Pandas library.

- Fine-tuned a transformer architecture using PyTorch to create a classification model for a smart voice assistant with 90% accuracy.

- Collaborated with Machine Learning Engineers to deploy ML models using Docker container and Flask API.

- Paired with the data science team to showcase AI service results and their alignment with business needs to stakeholders and PMs in sprint sessions.

- Launched Persian Smart Assistant on 300K+ smart TVs, enabling user interaction and movie recommendations.

Madara Tarah Co, Mashhad — *Electronics Intern*

May 2016 - Jan 2017

- Contributed to team efforts in designing industrial boards with high-performance processors(Xilinx Zynq and Nvidia Jetson series).

- Assisted in verifying component symbols and footprints, reviewed schematics and PCBs, ensuring alignment with reference designs.

- Demonstrated a strong commitment to precision and quality in the design and verification process during the internship.

PROJECTS (Freelance)

Optimization of a CNN model for MNist classification

- In my master's thesis, I optimized a CNN model for faster inference on Xilinx FPGAs using techniques such as approximate multipliers, and quantization in convolution layers. This led to a 50% reduction in runtime with just a 4% accuracy loss in predictions.

Predict real Disaster tweets (Kaggle competition)

- Used Python RegEx module for cleaning data.
- Analyzed data (text statistics, Explore Ngram, ...) using Sklearn.
- Trained and evaluated an LSTM model combined with an attention layer in the Keras framework.

MultiLabel text classification

- Developed a transformer model (Bert) for the Stack Overflow dataset to categorize data into multiple labels with a 74% F1-score.
- Cleaned and transformed 900k text data using Python libraries.

EDUCATION

M.Sc. Electrical Engineering | September 2017 - September 2020
Ferdowsi University — Mashhad

B.Sc. Electrical Engineering | September 2011 - January 2016
Birjand University — Birjend

CERTIFICATION

Natural Language Processing | Coursera — March 2023

Azure AI Fundamentals | Mic — December 2023