

Maryam Yazdi

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EDUCATION

Bachelor of Science, Computer Science
University of Isfahan

Sep. 2018 - May 2023
Isfahan, Iran

EXPERIENCE

Data Scientist

DataCoLab

May 2023 - June 2024

London, UK (Remote)

- Developed a coherent platform consisting of over 10 different LLM-powered **AI agents** to satisfy complex user queries through decision-making and autonomous/collaborative task execution.
- Replaced a GPT-outsourced task with a **fine-tuned**, locally hosted open-source large language model, reducing the company's OpenAI API costs by 30%.
- Conducted **deep-dive analysis** on provided datasets to propose creative data-driven solutions addressing specific requirements of the projects.

Teaching Assistant

University of Isfahan - Computer Science Department

May 2020 - July 2021

Isfahan, Iran

- Prepared weekly assignments and practice projects synchronized with the syllabus's progression.
- Conducted detailed grading and provided personalized feedback for assignments and exams.
- Held weekly office hours to assist students with course material and answer questions about assignments.

TECHNICAL SKILLS

- **Technologies / Frameworks:** Python, Pytorch, Transformers, Scikit-learn, PEFT, Pandas, NumPy, Plotly, Flask, Docker, SQL, Unit testing, Git/Github
- **Research Interests:** Large Language Models, Knowledge Extraction, Natural Language Processing

PROJECTS

RAG-based Question Answering Bot

April 2024

- [Github repository](#)
- Implemented a custom retrieval-augmented generation (RAG) framework from scratch, integrated with LLM-based question answering and a user-friendly interface.
- Technologies: FaissDB, LLMs, Docker, Flask, streamlit

Paper Summarizer Agent

July 2023

- Developed multiple chain-based summarization pipelines, compatible with any LLM regardless of context window size.
- Engineered chained prompts to ensure authentic summarization of a research paper.
- Technologies: Python, Langchain, LLMs, streamlit

Contextual Machine Translation for Movies Subtitles

June 2023

Advisor: Prof. Reza Ramezani

- Enhanced training data by extracting and validating English-Persian idiom translations from popular movie subtitles.
- Fine-tuned a language model for translating English movie subtitles to Persian, emphasizing idioms and slang.
- Technologies: Pytorch, Beautiful Soup, Transformers