Masoud NAVIDI - Data scientist

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PROFILE

Experienced data scientist and software engineer with expertise in developing AI-powered applications and integrating large language models (LLMs) like LLaMA. Adept at designing and implementing scalable and efficient APIs, microservices, and containerized environments using Docker. Passionate about leveraging cutting-edge technologies like Retrieval-Augmented Generation (RAG), LangChain, and vector databases to build innovative solutions. Proven ability to collaborate effectively with cross-functional teams and provide technical leadership.

SKILLS

- ✓ Large Language Model (LLM) Integration: LangChain, LLaMA, Retrieval-Augmented Generation (RAG)
- ✓ Vector Databases and Retrieval: SaaS and On-Premise vectorstores
- ✓ Cloud Platforms: Azure, AWS, GCP
- ✓ Containerization: Docker
- ✓ Backend Development: Python, Flask, FastAPI, SQL, PostgreSQL, APIs, Microservices
- ✓ ML and DL: NLP, Computer Vision

LANGUAGE

English (fluent)
French (basic)

WORK EXPERIENCE

Intern and software integration lecturer, Feb. 2024 – Jul. 2024
Université Paris-Est Créteil (Paris XII)

- ✓ Developed a multipurpose LLM web application utilizing Retrieval-Augmented Generator Architecture, integrating data from databases, URLs, and documents
- ✓ Implemented custom RAG solution using LLaMA API, memory integration, query creation, and vector database
- ✓ Created APIs for real-time data processing employing FastAPI and PostgreSQL.
- ✓ Utilized Docker for containerization and GitHub for version control
- ✓ Mentored Master's level students on projects focused on API and deployment.

Electrical engineer and firmware developer, Sep. 2019 – Sep. 2022
Pars Zarasa Household Design & Industrial Company R&D

- ✓ Led firmware development for 3 mass production household appliances.
- ✓ Developed and implemented several test jigs notably one which reduced production line delays by 10 seconds per product enhancing productivity and accuracy.
- ✓ Engineered an IoT product featuring ESP8266 and MQTT where data exchange with an Android app.
- ✓ Collaborated and communicated with internal teams and international partners for project success within an agile environment.

Teacher of Microprocessors lab, Jan. 2015 – Jun. 2015
University of Guilan

- ✓ Instructed students in VHDL programming for FPGA.

EDUCATION

Master of Biometrics and Intelligent Vision, Sep. 2022 – Sep. 2024
Université Paris-Est Créteil

- ✓ Specialization in Python, SQL, C++, Machine Learning, and Natural Language Processing
- ✓ Designed and implemented a deep learning algorithm that achieved 97% accuracy in classifying lymphocytes and tumors in histopathological images (WSI) of liver samples.
- ✓ Developed an Automated Attendance System using Python, MySQL, and FastAPI, utilizing extensive data visualizations. Awarded Best Project at the BioSMART International Conference.
- ✓ Ranked First in class based on academic performance (17 out of 20).

Master of Electrical Engineering-Microelectronics, Sep. 2014 - May 2017
University of Guilan

- ✓ Implemented an active contour-based algorithm for brain tumors segmentation from MRI images (DICOM and NIFTI) enhancing the precision of diagnostic processes by accurately delineating tumor boundaries.
- ✓ Thesis titled 'Implementing Human Action Recognition Algorithm on FPGA' received a perfect score of 18 out of 18.

COURSES

- ✓ Python for Data Science AI & Development, Aug. 2023
- ✓ Unsupervised Learning Recommenders Reinforcement Learning, Aug. 2023
- ✓ Advance Learning Algorithms, May 2023
- ✓ Supervised Machine Learning: Regression and Classification, Feb. 2023
- ✓ Improving Deep Neural Networks, Apr. 2022
- ✓ Neural Network and Deep Learning, Mar. 2022