

SEP AMINIAN

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EXPERIENCE

Software specialist Associate - Evelyn Partners

Jun. 2024 - Present

London, United Kingdom

- Assisting in the development of a machine-learning solution that uses LLMs in a micro-service setting to help with core business tasks to reduce time spent for delivery by more than 20 hours per engagement.
- leveraging my expertise in diverse programming languages and technologies to offer strategic guidance and implement efficient software solutions that align with industry best practices for certain use cases in the corporate tax function.

Software specialist - RSM UK

Mar. 2023 - May 2024

London, United Kingdom

- Working as a part of a wider team to incorporate Microsoft Copilot into the business by designing detailed use case scenarios and integrating considerations on privacy policies and data sharing as well as accuracy.
- leveraging my expertise in diverse programming languages and technologies to offer strategic guidance and implement efficient software solutions that align with industry best practices for certain use cases in the corporate tax function.
- Collaborating closely with cross-functional teams, facilitating seamless integration of software systems, ensuring smooth transitions through enhanced performance and productivity.

Machine Learning Engineer - Definely

Apr. 2022 - Mar. 2023

London, United Kingdom

- Demonstrated proficiency in effectively utilising the transformers library to fine-tune BERT, consistently attaining elevated F1 score of 86% and 83% for ML text classification for scenarios for detecting defined terms and references in French and German.
- Designed, developed, and deployed a cloud-based ML text classification model with over 90% accuracy using XGBoost, Pandas, SciKit Learn, and Azure infrastructure.
- Spearheaded the creation of an efficient pipeline, optimising engineer productivity through labelled data management, repository oversight, and task automation.
- Initiated the launch of a website sandbox service, providing users with a free web-based product experience and collecting valuable data for future machine learning tasks using Django, MongoDB and React JS.

SELECTED PROJECTS

Planning AI Assistant

Apr. 2024 - Present

- Created a pipeline to scrape data in the PDF and text format from websites with high reliability and store it in a file management system as a first base data source.
- Leveraged Django framework to create a micro-service application to extract over 140 useful features using pyMyPDF from data sources and stored it in MongoDB.
- Created an AI assistant using Claude and RAG methods in Python and Chainlit to answer planning questions with high accuracy and providing references.
- Developed a performant facet search engine to search through for relevant documents from scrapped data using Django and Mongo DB.

Multiple NLP tasks

Aug. 2022 - Mar. 2024

- Created a pipeline to recover LLM prompts using Gemma7b with a score of 0.68.
- Spearheaded the implementation of neural network solutions for a variety of NLP tasks, including Natural Language Modeling, Machine Translation, Named Entity Recognition, and Co-reference Resolution.
- Implemented the Seq2Seq Dialogue model with precision, closely adhering to the original paper's specifications. Demonstrated expertise in model development using TensorFlow Keras and PyTorch, incorporating ELMO and BERT for embedding layers. Explored attention-based methods and traditional LSTMs to enhance overall model performance across diverse projects.

EDUCATION

MSc. Artificial Intelligence with Distinction- Queen Mary University of London Sept. 2021 - Sept. 2022

- **Details:** Graduated with Distinction

BSc. Geomatics Engineering with Distinction- University of Tehran Sept. 2016 - Feb. 2021

- **Details:** Minor in Computer Engineering. Graduated with Distinction

SKILLS

- **Programming Languages:** Python, JavaScript, C++
- **Machine Learning:** PyTorch, TensorFlow, Keras, CUDA, LLMs, Transformers, Scikit Learn, NumPy, Pandas, GeoPandas, Matplotlib, NLTK, Spacy, PymuPDF
- **Frameworks and technologies:** Node.JS, Django, AWS Bedrock, AWS S3, AWS Lambda, MongoDB, SQL, Git, Docker
- **Soft Skills:** Project management, Communication, Analytical thinking, Teamwork, Independence.
- **Certifications:** Intro to Software Engineering(IBM), Machine learning Summer School 2023(OxML), Neural Networks and Deep Learning(Coursera), Python for Data Science(IBM)