SEP AMINIAN

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EXPERIENCE

Software specialist - RSM UK March 2023 - Present
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 technological 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, I facilitate seamless integration of software systems, ensuring smooth transitions through enhanced performance and productivity.

Machine Learning Engineer - Definely April 2022 - March 2023
London, United Kingdom

- Demonstrated proficiency in effectively utilising the transformers library to fine-tune BERT, consistently attaining elevated F1 scores across various ML classification scenarios for detecting defined terms and references.
- Designed, developed, and deployed a cloud-based ML text classification model with over 90% accuracy using XGBoost, Pandas, SciKit Learn, and MS 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.

SELECTED PROJECTS

Multi-Language Defined Terms and References August 2022-March 2023

- Created text classification models to analyse commercial legal documents in 3 languages. Achieved over 90% accuracy in detecting defined terms and references using BERT, PyTorch and Scikit-learn.
- 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 - Queen Mary University of London September 2021- September 2022

- **Details**: Graduated with Distinction

BSc. Geomatics Engineering - University of Tehran September 2016 - February 2021

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

SKILLS

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