

# SEP AMINIAN

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## SUMMARY

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I'm a Natural Language Processing-focused Machine Learning Engineer with a Master's degree in AI. I excel in developing and deploying advanced NLP models, data preprocessing, and model optimisation. I'm skilled at collaborating in cross-functional teams and passionate about using AI to solve complex challenges.

## EXPERIENCE

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### Software specialist - RSM UK

March 2023 - Present

*London, United Kingdom*

- Showcased profound technical acumen by crafting compelling technical narratives tailored to software engineering across diverse industries.
- Collaborated across teams to deliver projects smoothly, while also conducting client meetings to assess eligibility for Research and Development Tax Relief claims through technical interviews.

### 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.

## PROJECTS

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### Multiple Natural Language Processing Tasks

May 2022 - June 2022

- Achieved the successful implementation of a prompt-based generative solution utilising LangChain for a cutting-edge dialogue generation model.
- 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

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### 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

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- **Programming Languages:** Python, JavaScript, C++
- **Machine Learning:** PyTorch, TensorFlow, Keras, CUDA, LLMs, Generative models, Transformers, Scikit Learn, XGBoost, NumPy, Pandas, Matplotlib, Seaborn, NLTK, Spacy
- **Frameworks:** Node.JS, Django, 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), Data visualisation with python(IBM), Project-oriented course in front-end development(Quera)