20th February 2024

To whom it may concern,

Reference for

Kenneth Gao

HTX Internship from Nov 2023, to Jan 2024

Dear Sir/Madam,

Kenneth joined us as a Machine Learning intern in the Cognitive Computing team under xData, Enterprise Group within the Home Team Science & Technology Agency (HTX). The team's work focuses mainly on developing Data Science capabilities for use with HomeTeam operations.

During Kenneth's internship, he was assigned to work on both software engineering and generative AI pieces. He contributed significantly to the frontend components of our in-house developed Natural Language Processing (NLP) portal, including redesigning the portal's home page and refactoring the existing code base as part of code optimisation. Kenneth came onboard with familiarity with Python, Javascript and React.js, and had little trouble picking up the other necessary libraries and frameworks used by the team. Aside from software development, Kenneth showcased a keen interest in generative AI and demonstrated willingness and dedication to understanding complex data science algorithms and concepts.

One notable aspect of Kenneth's approach is his commitment to thoroughly understand the theoretical concepts behind his solutions before any practical implementation. This methodical approach has been evident in his experimentation with enhancing retrieval augmented generation (RAG) pipelines. He spearheaded the development of building knowledge graphs from unstructured text, a task that required sound understanding of data structures and search algorithms. His efforts significantly contributed to the team's understanding of knowledge graph performance in multi-hop Question-Answering (QA), showcasing his ability to translate theoretical insights into tangible outcomes.

Despite this being Kenneth's first exposure to working in agile scrum teams, I thought he performed well and proved that he was able to work independently and illustrate his challenges well to the team when he faced difficulties in his tasks. Kenneth consistently demonstrates exceptional diligence, enthusiasm, and a strong work ethic during his time with us.

Overall, I am very impressed with Kenneth's internship stint with HTX. He has delivered outstanding work and is a reliable and respectful individual who needed minimum supervision. I am confident that he will continue to excel in his future endeavours and will be a valuable asset to your organisation.

Yours sincerely,

Ngoh Wei Jie
Data Scientist
Cognitive Analytics, Cognitive Computing
xData, Enterprise Group