

**Summary:** This project is in collaboration with Michael Garron Hospital. Historically, the hospital has utilized the WHO safety event classification method for incident reporting. However, this method is no longer considered best practice and has been superseded by the new HPI safety event classification method, which the hospital's quality team has already begun to implement for new incidents. To effectively measure the impact of this change and establish a clear benchmark for future improvements, there is a critical need to retrospectively reclassify all incident reports from the past two years (approximately 5,000 incidents) using the new HPI methodology. Manually completing this task would take the quality team about a year. Without this historical reclassification, the hospital lacks a consistent baseline to analyze trends and demonstrate the efficacy of new safety initiatives.

The goal of the project is to develop new tools based on Large Language Models (LLMs) to accurately classify the incident reports and gain new insights into safety incidents.

**Applications:** Interested applicants should submit a CV and a single paragraph describing their interest in the project and relevant background in using NLP and LLMs to Prof. Vahid Sarhangian ([sarhangian@mie.utoronto.ca](mailto:sarhangian@mie.utoronto.ca)).