

2025 EECMS Summer Internship Application Form

Main Supervisor	Dr Sajib Mistry
Other supervisors (if applicable)	A/Prof Aneesh Krishna
Project Title	Enhancing Accessibility of Medical Information Through Text Simplification and Translation.
Student location(s) for the project	Bentley Campus, Nedlands Medical Center
Duration of project	Eight weeks
Project Description	<p>Medical texts, such as clinical guidelines, research articles, and patient information leaflets, are often laden with complex terminologies and intricate sentence structures, posing significant comprehension challenges for the general public. The intricacy of these texts can lead to misunderstandings and hinder informed decision-making. Additionally, the scarcity of multilingual medical resources further limits the accessibility of critical health information for non-native speakers. To address these challenges, this project aims to develop an advanced natural language processing (NLP) system that simplifies complex medical texts and translates them into multiple languages. The system will leverage state-of-the-art machine learning (ML) models, including transformers and neural machine translation (NMT), to process and convert medical information into accessible formats. The primary public sources of medical texts will include public FDA data (https://open.fda.gov), patient information leaflets, clinical guidelines, research articles, health websites, and medical textbooks. This initiative seeks to enhance the dissemination of medical knowledge, making it understandable and accessible to non-native speakers and individuals with limited health literacy, thereby improving overall health communication and outcomes.</p>