

PhD research pre-proposal

Code: TICLab-2021/PhD3	
Title: AI-assisted Human Labeling For Research Data	
Supervisors: Prof. Boualem Benatallah (UNSW Sydney) & Prof. Mounir Ghogho (UIR)	
Host college: College of Engineering and Architecture	Host research unit: TICLab

SUMMARY OF THE RESEARCH PRE-PROPOSAL

Research tasks include collecting information, performing qualitative and quantitative analysis, and collaborating with colleagues. Manually performing such tasks, especially when research involves a large number of unstructured notes, research papers, data, interviews, field observations, is tedious and time consuming. The objective we have in this research project is to provide researchers with AI-assisted research data labelling services (e.g., coding for research papers, interview transcripts). The labelling can be used to build machine learning models to support tasks such as papers screening in systematic literature reviews, coding in qualitative data analysis, summarizing research finding, etc.

REQUIRED ACADEMIC QUALIFICATIONS & SKILLS

Applicants should have a master or an engineering degree in data science, computer science, applied or computational mathematics, or any related discipline. Good algorithmic design skills, basics of machine learning and natural language processing, good programming skills, and fluency in English are required.