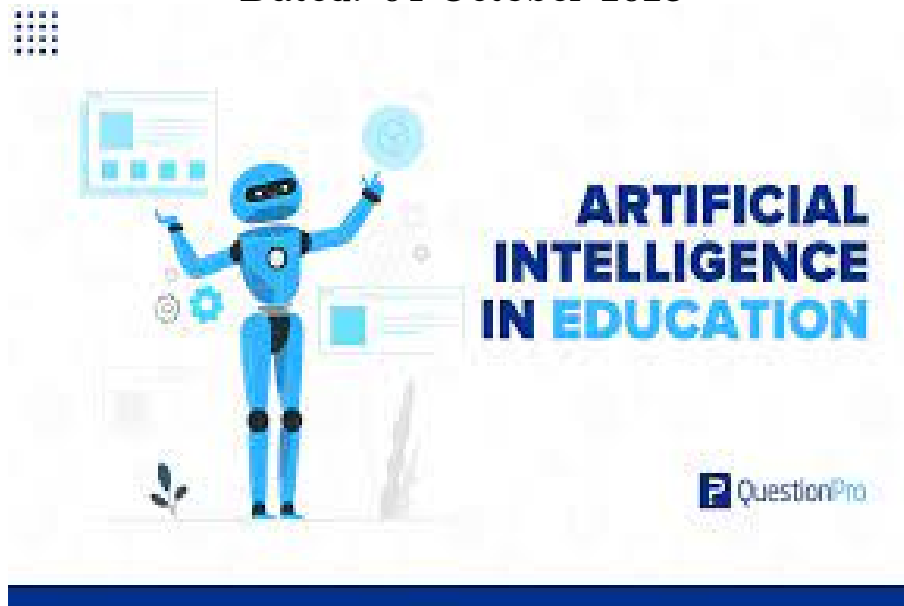


University of Toronto Mississauga

STA304: Project Proposal

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Dated: 04 October 2023



*Topic: Analysing the impact and outcomes of
integration of Artificial Intelligence in student's
learning*

Project Proposal

Project title

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Analysing the impact and outcomes of integration of Artificial Intelligence in student's learning

Goal: The goal of our statistical study is to measure the dependency and impact of Artificial Intelligence in student's learning with a particular focus on students enrolled in STA304 Fall 2023.

- **Target population:**

The target population for our statistical research is students enrolled in STA304 in Fall 2023 semester.

- **Proportion**

We will study the proportion of students using AI during their study.

- **Sampling Frame:**

Our sampling frame for this research is STA304H5 Fall 2023 Lecture-0101, Lecture - 0102, as well as all tutorial sections(all its corresponding rooms)

- **Sample Size:**

Our sample size is **50**.

- **Sampling Method:**

The sampling method used is **Simple Random Sampling (SRS)** since a subset of participants from the entire population is selected and it is ensured that our sample represents the entire population.

- **Data Collection Method:**

In order to collect data, a **questionnaire** is designed so that a large quantitative data is collected from number of participants about their perception, attitude or experiences related to AI in education.

- **Means to collect data:**

[Questionnaire](#)

- **Hypothesis**

The possible hypothesis are:

- The frequency of AI tool usage follows a bimodal distribution, with most either using AI frequently or not at all.
- The usage of AI decreases average study time

- **Advanced Methodologies**

We intend to use **Factor Analysis** as an advanced methodology, since it can help us identify underlying factors that may influence students' attitudes and experiences related to AI in education