A logo of a university

Description automatically generated

**EAI 6400 – Data Governance and Responsible AI**

**Project Proposal:** "The Impact of Bias in AI Technology: An AI Ethical Challenges and Analysis"

**Submitted by:**

Anoopchandra Parampalli

Professor: Dr. Mimosa Dimodugno

6th June 2024

Table of Contents

**Project Overview** **3**

**Background** **3**

**Objective** **3**

**Methodology** **4**

**Expected Outcome** **4**

**Significance** **4**

**Project Overview**

The project aims to comprehensively analyze the prevalent issue of bias in Artificial Intelligence technologies. This project is primarily a focused case study on Facial Recognition Technology (FRT) in law enforcement. The project seeks to understand how biases are embedded in AI algorithms. Moreover, the ethical concerns and societal impacts that arise from these biases.

**Background**

AI technologies are being rapidly integrated into various aspects of society. Day by day it improves its efficiency and capabilities. However, the integration of AI also brings to light the significant ethical challenges, mainly due to biases in algorithmic decision-making. These biases can perpetuate inequality, discrimination, and unfair treatment. Which in turn poses a significant threat to societal harmony. Especially in sensitive applications like facial recognition used by law enforcement.

**Objective**

This research will:

* Identify specific instances of AI bias in different sectors. Highlighting major incidents and ongoing concerns.
* Analyze the implications of these biases, primarily focusing on the ethical challenges they pose.
* Evaluate the current regulatory and policy frameworks addressing AI biases.
* Propose solutions to mitigate these biases and ensure AI technologies are used fairly and ethically.

**Methodology**

The research will specifically involve a literature survey of academic research, case studies, and news articles related to AI biases in the currently deployed models. It will also include an analysis of a few specific case studies where AI bias has had significant social implications. Which will provide an in-depth look at facial recognition technology in law enforcement.

**Expected Outcomes**

The project is expected to yield a comprehensive understanding of the scale and impact of AI biases in the law enforcement sector. It will also try to provide actionable insights into improving fairness and equity in AI applications. These insights will pave the way for a more fair and just use of AI technologies. Offering hope for a future free from bias.

**Significance**

This research is of utmost importance and urgency in the current technological landscape. It is crucial to develop strategies to mitigate bias in AI. Ensuring that technological advancements contribute positively to society without reinforcing existing societal inequalities.