

SYNOPSIS

Dissertation topic:

**“ETHICAL CONSIDERATIONS AND CHALLENGES ASSOCIATED
WITH IMPLEMENTATION OF ARTIFICIAL INTELLIGENCE IN
INDIAN HEALTHCARE SECTOR”**

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Ethical Considerations and Challenges Associated with Implementation of AI in Indian Hospitals

Abstract:

The advent of Artificial Intelligence (AI) in healthcare promises to revolutionize patient care, diagnosis, and treatment efficiency. However, the implementation of AI in Indian hospitals presents significant ethical considerations and challenges that must be addressed to ensure its effective and equitable integration into the healthcare system. This thesis explores the ethical dilemmas, potential biases, data privacy concerns, and the broader socio-economic implications of deploying AI technologies in Indian healthcare settings.

Introduction:

AI technologies have the potential to transform the healthcare landscape in India by enhancing diagnostic accuracy, personalizing treatment plans, and optimizing healthcare operations. Despite these advantages, the deployment of AI in healthcare raises critical ethical questions about patient consent, data security, algorithmic transparency, and potential biases that may exacerbate existing healthcare disparities.

Objective:

The study objective is to identify the ethical issues, challenges and recommend solutions, in relevance to the implementation of AI in Indian Healthcare sector.

Review of Literature:

A review of existing literature (Published articles, guidelines and laws) was conducted to understand implications of AI in healthcare, exclusively for India.

Methodology:

This research has been conducted as a desk study and it relies on secondary data obtained from various sources such as published articles and papers collected from Search engines, guidelines established by governing bodies etc, it was also made sure that all sources have a good credibility. An inclusion and exclusion criteria was also followed for the selection of relevant data. The data was then categorized in points in relevance to the issues and challenges and analyzed aligning with the objectives of the study.

Discussion:

The discussion will explore the broader implications of AI in healthcare, considering cultural, socio-economic, and regulatory factors unique to India.