

EthicBot Enhanced AI Ethics Assistant Project Report

Advanced Conversational AI System for Ethics Education and
Consultation

Version 3.0 - Comprehensive Implementation and Analysis

Project: AI Ethics Assistant Development

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Abstract

This report presents the development and implementation of EthicBot Enhanced, an advanced AI Ethics Assistant designed to provide comprehensive guidance on artificial intelligence ethics, standards, and best practices. The project combines local knowledge base capabilities with hybrid AI integration, offering users access to IEEE standards-based responses alongside enhanced insights from multiple AI providers including OpenAI GPT-4, Google Gemini, Anthropic Claude, and Meta Llama. The system addresses the growing need for accessible, reliable, and comprehensive AI ethics education and consultation tools in an era of rapid AI development and deployment.

The EthicBot Enhanced system features a sophisticated natural language processing engine, regenerative thinking capabilities, and comprehensive definition handling for 15+ core AI ethics terms. It integrates IEEE standards 2857 (Bias Assessment), 2859 (Privacy Engineering), and 3652 (Autonomous Systems Safety), providing users with authoritative, standards-based guidance on critical AI ethics topics including bias detection, fairness metrics, privacy preservation, transparency, explainability, and AI governance frameworks.

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