1. Overview

1.1 AI System Name: EcoBot

1.2 Description: EcoBot is a conversational AI designed to provide users with information and advice on sustainable living practices, including tips for reducing energy consumption, recycling, and eco-friendly products. The AI system operates through a web-based chat interface and is intended to support users in making environmentally friendly choices.

1.3 Purpose and Use Case: The primary purpose of EcoBot is to educate and assist users in adopting sustainable lifestyle practices. It provides general information and recommendations based on user queries and does not involve processing sensitive personal data or making decisions that affect the users' rights.

2. Technical Specifications

2.1 System Components:

- **Natural Language Processing (NLP) Engine**: Utilizes pre-trained language models for understanding and generating text.
- **Knowledge Base**: Contains information on sustainability practices, curated from publicly available sources.
- **User Interface**: Web-based chat interface accessible via standard web browsers.

2.2 Data Handling:

- **Input Data**: User queries and interactions are processed in real-time but are not stored or analyzed for any purpose other than providing immediate responses.
- **Output Data**: Responses generated are based on predefined rules and knowledge base content.

2.3 Data Privacy and Security:

- **Data Storage**: No personal data is collected or stored.
- **Data Transmission**: Communication between users and EcoBot is encrypted using HTTPS.