

# WisePal

**WisePal** is a conversational AI web application that allows users to interact with an intelligent assistant through a modern, responsive chat interface. This project demonstrates practical skills in backend API development, frontend engineering, and AI model integration.

## Project Overview

- Conversational AI platform built with Python (FastAPI), React (Next.js), and Tailwind CSS.
- Integrates open-source natural language models from Hugging Face Transformers for real-time chatbot responses.
- Features a clean, user-friendly chat UI with dynamic conversation history.
- Designed, implemented, and documented entirely by me as a demonstration of end-to-end product engineering.

## Technologies Used

Layer	Technology
Backend	Python, FastAPI
Frontend	Next.js (React), Tailwind CSS
AI Model	Hugging Face Transformers (e.g., BlenderBot)
Versioning	Git, GitHub

## Key Features

- Modern, responsive chat interface with real-time messaging and auto-scrolling.
- RESTful API connecting frontend and backend for seamless communication.
- Natural language understanding and generation using pre-trained transformer models.
- Clean repository management with `.gitignore` to exclude unnecessary files and dependencies.
- Comprehensive documentation for setup, usage, and customization.

## How to Run Locally

### 1. Clone the Repository

```
git clone https://github.com/yourusername/wisepal.git
cd wisepal
```

## 2. Backend Setup

```
cd backend
python3 -m venv venv
source venv/bin/activate
pip install -r requirements.txt
uvicorn main:app --reload
```

## 3. Frontend Setup

```
cd frontend
npm install
npm run dev
```

Visit <http://localhost:3000> in your browser.

## Project Highlights

- Designed and implemented the entire stack, from backend API to frontend UI.
- Integrated Hugging Face conversational models for interactive, context-aware chat.
- Managed project with Git and GitHub, following best practices for clean code and version control.
- Documented setup and usage for easy onboarding and demonstration to recruiters.

## Customization

- Swap out the AI model in `backend/main.py` to try different Hugging Face models.
- Update UI styles in the frontend for your preferred look and feel.

## License

MIT

## Built and maintained by Shreya N.

If you're a recruiter or collaborator interested in my work, feel free to reach out or explore the codebase!