HealthAI Project Report

Project Title

HealthAI: Intelligent Healthcare Assistant Using IBM Granite

Objective

To develop an intelligent healthcare assistant using IBM Watson Machine Learning and Generative AI that provides personalized healthcare insights and services through a Streamlit web app.

Features

1. Patient Chat: AI-powered Q&A for health-related queries.

2. Disease Prediction: Predicts possible conditions based on symptoms.

3. Treatment Plans: Provides personalized treatment recommendations.

4. Health Analytics: Visualizes health trends using patient vitals.

Technology Stack

- Python

- Streamlit

- IBM Watson Machine Learning

- IBM Cloud

- Matplotlib, Pandas

Deployment

The application is deployed using Streamlit Cloud, with source code hosted on GitHub. IBM Watson services are connected via API keys and project ID securely managed through Streamlit Secrets.

Usage Instructions

1. Open the Streamlit app URL.

2. Select any of the four features from the sidebar.

3. Provide input (symptoms, health question, or diagnosed condition).

4. Get AI-generated responses or insights based on IBM Watson models.

Video Demo

A short demonstration video has been recorded showing the working of all features and is submitted along with this report.

Submission

The final project including source code and demo video is submitted through SmartInternz project dashboard.

Date

June 23, 2025