MedScan

A Web App For Multiple Disease Detection

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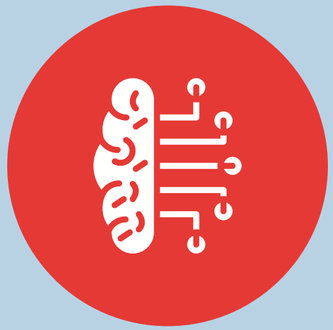


ABOUT THE PROJECT

- **Objective:** Develop a web application for detecting multiple diseases using machine learning.

- **Description:** The application will integrate various disease detection models into a single platform. Users can select a disease, input test report data, and receive a prediction on whether the disease is detected or not.

- **Scope:** Covers diseases such as breast cancer, lung cancer, skin cancer, heart disease, atrial fibrillation, Alzheimer's disease, Parkinson's disease, diabetes, COVID-19, sepsis, chronic obstructive pulmonary disease, pneumonia, depression and anxiety, and schizophrenia.

MAJOR REQUIREMENTS

- **DATA COLLECTION:**
  - Datasets from Kaggle and GitHub for various diseases.
- **DEVELOPMENT TOOLS:**
  - Google Colab for code writing and execution.
  - Streamlit for web application development.
- **MACHINE LEARNING MODELS:**
  - Different classification models for each disease.
- **LIBRARIES AND FRAMEWORKS:**
  - Python, TensorFlow, Scikit-learn, Pandas, NumPy, Streamlit.

TECHNICAL STACK

1. Programming Language:

- Python

2. Data Handling and Analysis:

- Pandas, NumPy

3. Machine Learning:

- Scikit-learn, TensorFlow, Keras(optional)

4. Development Environment:

- Google Colab

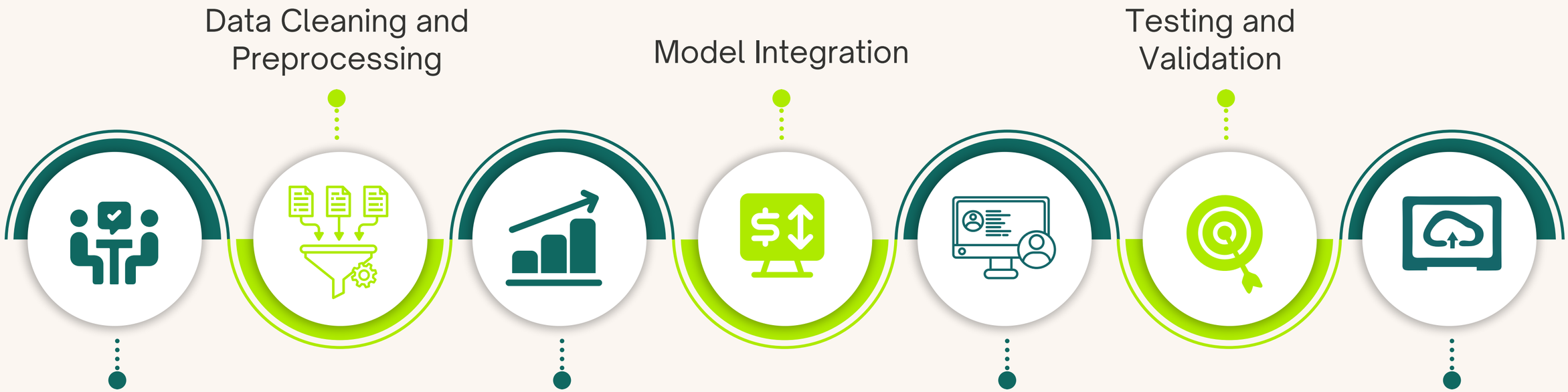
5. Web Application Framework:

- Streamlit

6. Data Visualization:

- Matplotlib, Seaborn

PROJECT STAGES



PREDICTED RESULT

- **Accurate Disease Detection:**
  - High accuracy in predicting the presence of diseases based on input test data.
- **User-Friendly Interface:**
  - Easy navigation and interaction for users to input data and receive results.
- **Comprehensive Coverage:**
  - Support for multiple diseases within a single application.
- **Scalable Solution:**
  - Potential to add more diseases and improve models over time.
  - Available as a web application.

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Thank you very much!