AyurHealth

"The great thing about Ayurveda is that its treatments always yields side benefits, not side effects"

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SOFTWARE REQUIREMENT SPECIFICATION
FOR MINI PROJECT WORK DONE BY
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INTRODUCTION

PROJECT AREA

- We understand the great advantages of Ayurvedic treatment.
- Our aim is to help people to identify their health problems and share the knowledge on ayurvedic remedies for the specific disease.
- Our project will help to make Ayurvedic treatment more common to people.

OBJECTIVES

- Gather symptoms, disease and remedies data and preprocess and clean it.

- Develop and train the model with the data.

- Develop a user friendly interface.

- Continuously update and improve the system.

Gap Identified

1. Limited Data
2. Limited integration of Data sources
3. Limited Explanation of predictions
4. Limited consideration of comorbidities
5. Limited consideration of patient preferences
6. Limited Validation and Testing

Literature Review

Paper,Author	Year	Methodology	Key Findings
"Ayurvedic Disease Prediction System Using Data Mining Techniques" : Chaudhary P	2018	Data mining techniques, It can aid healthcare professionals in early disease detection and intervention.	The system's effectiveness heavily relies on the availability and quality of patient data,Inaccurate or incomplete data can lead to less reliable predictions and hinder the system's overall performance,Collecting a larger and more diverse dataset can improve the system's accuracy and generalizability
"Ayurvedic Disease Prediction using Machine Learning Techniques ": Tandel S and Bhatt A	2019	Machine Learning Techniques,It can provide faster and more efficient predictions compared to traditional diagnostic methods.	The system lacks interpretability, it may affect the generalizability and reliability of the predictions, Enhance the system by incorporating a deeper understanding of Ayurvedic principles, Integrating this knowledge can improve the accuracy and relevance of the predictions.

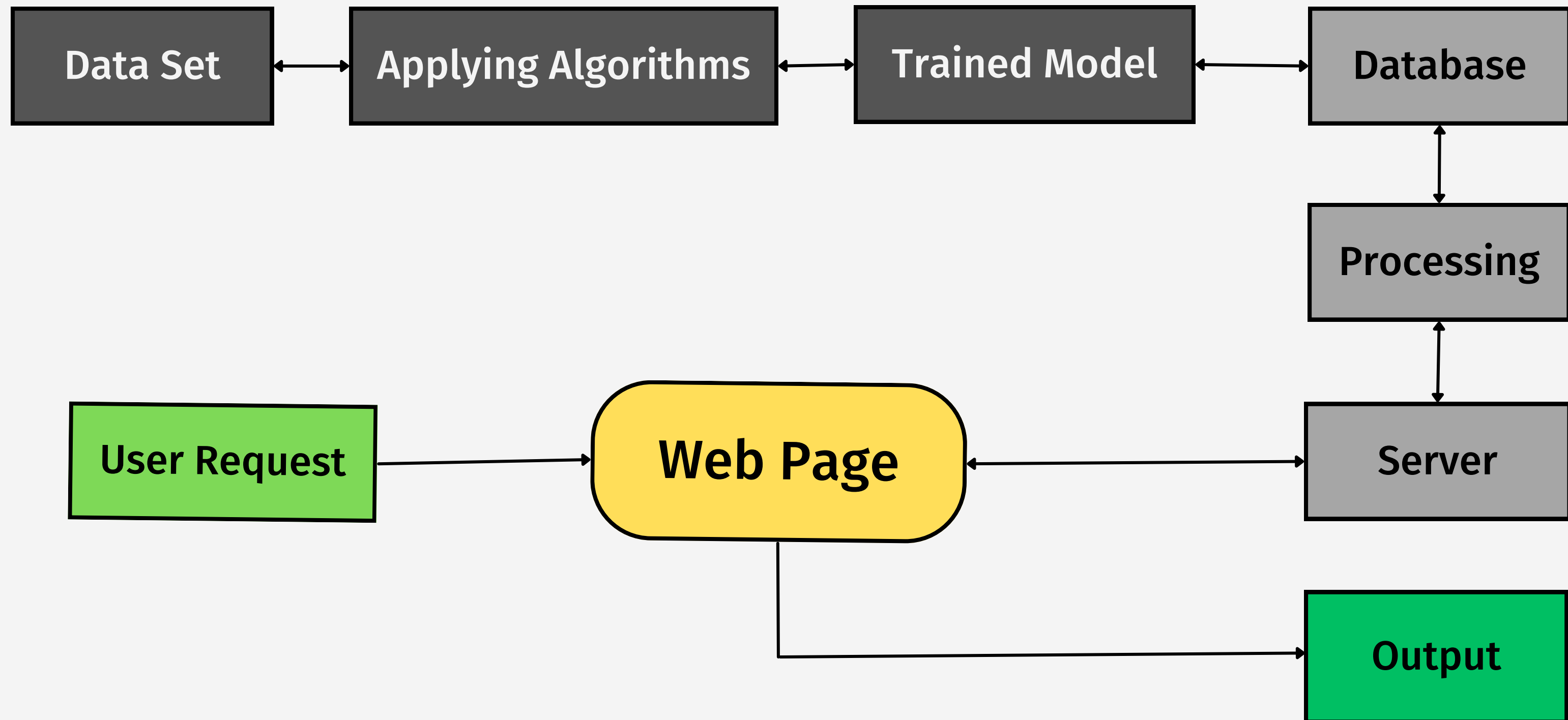| Author	Year	Methodology	Key Findings
"Using Data Mining Techniques in Ayurveda": Sharma S and Bhargava R	2020	Deep Learning Technique,Integration of Ayurvedic Principles,It incorporates Ayurvedic principles enables a comprehensive analysis of patient data, considering various factors that influence disease manifestation.	The lack of standardization in Ayurvedic diagnosis,capturing the holistic nature of Ayurveda or specific diagnostic and treatment methods may affect the accuracy and relevance of the predictions, Develop models that provide interpretability and explainability.
"An intelligent Ayurvedic Disease Diagnosis System based on Symptom Matching": Sinha N	2021	Symptom Matching, The system can accurately match symptoms provided by the patient with Ayurvedic disease profiles.	Misinterpretation or incomplete understanding of symptoms can lead to incorrect diagnoses, The evidence base for Ayurvedic diagnoses and treatments are limited, Improving the accuracy and granularity of symptom analysis can lead to more precise diagnoses.

PROBLEM STATEMENT

Providing individuals with access to personalized healthcare, education about Ayurvedic medicine, accurate disease prediction, and a platform for tracking progress and effectiveness of treatments.

Proposed Solution

- Data Set of Ayurvedic knowledge will be collected

- Relevant features will extracted from this data including symptoms

- By using Machine learning techniques it predict diseases based on symptoms and a recommendation system is also developed

System Design

IMPLEMENTATION

- Data Collection

- Machine Learning Model

- Disease Prediction

- Suggester

- User Interface

- Integration and Deployment

RESULT

AYURHEALTH

Home   Contact   About

Ayurveda is an ancient Indian system of medicine that has been practiced for thousands of years. The word Ayurveda comes from the Sanskrit words Ayur, meaning life, and Veda, meaning knowledge. According to Ayurvedic principles, good health is achieved through a balance of mind, body, and spirit. Ayurveda places great importance on the prevention of disease, and it emphasizes the use of natural remedies, including herbs, massage, and yoga, to promote healing and restore balance. The goal of Ayurvedic treatment is to identify and address the root cause of illness, rather than just treating the symptoms. While Ayurveda has been criticized by some for lacking scientific evidence, it remains a popular alternative medicine practice in India and is gaining recognition in other parts of the world.

The great thing about Ayurveda is that its treatments always yield side benefits, not side effects.

HOMEPAGE

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SYMPTOM

SUGGESTER

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"Ayurveda is a traditional Indian system of medicine that emphasizes the balance between mind, body, and spirit for optimal health and well-being."

SYMPTOMS

Welcome to our innovative symptoms prediction feature, designed to bring you peace of mind and valuable insights into your health. With just a few clicks, you can input your symptoms and let our advanced algorithm do the rest, to provide you with personalized predictions about potential health conditions.

FIRST SYMPTOM

SECOND SYMPTOM

THIRD SYMPTOM

FOURTH SYMPTOM

SYMPTOM PAGE

SUGGESTER

Discover effective remedies and holistic approaches. We understand the impact that can have on your well-being, which is why we have curated a collection of proven remedies to help you alleviate symptoms and promote healing.

DISEASE

SUGGESTER PAGE

FUTURE SCOPES

- Integration with electronic health records.

- Integration with Real-time healthcare monitors.

- Collaboration with ayurvedic healthcare experts.

- Mobile app for easy accessibility.

- Personalised Ayurvedic medicine recommendations.

CONCLUSION

- It can provide significant benefits in the field of healthcare, especially in countries where Ayurveda unpopular.
- It assist layman in the diagnosis and treatment predicting disease based on their symptoms and other relevant factors, and suggesting appropriate Ayurvedic medicines.
- The system would need to be validated and tested using Improved datasets to Improve its accuracy and reliability.
- It has the potential to improve the quality of healthcare, reduce the cost of treatment, and increase patient satisfaction by providing personalized and effective treatments.

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THANK YOU