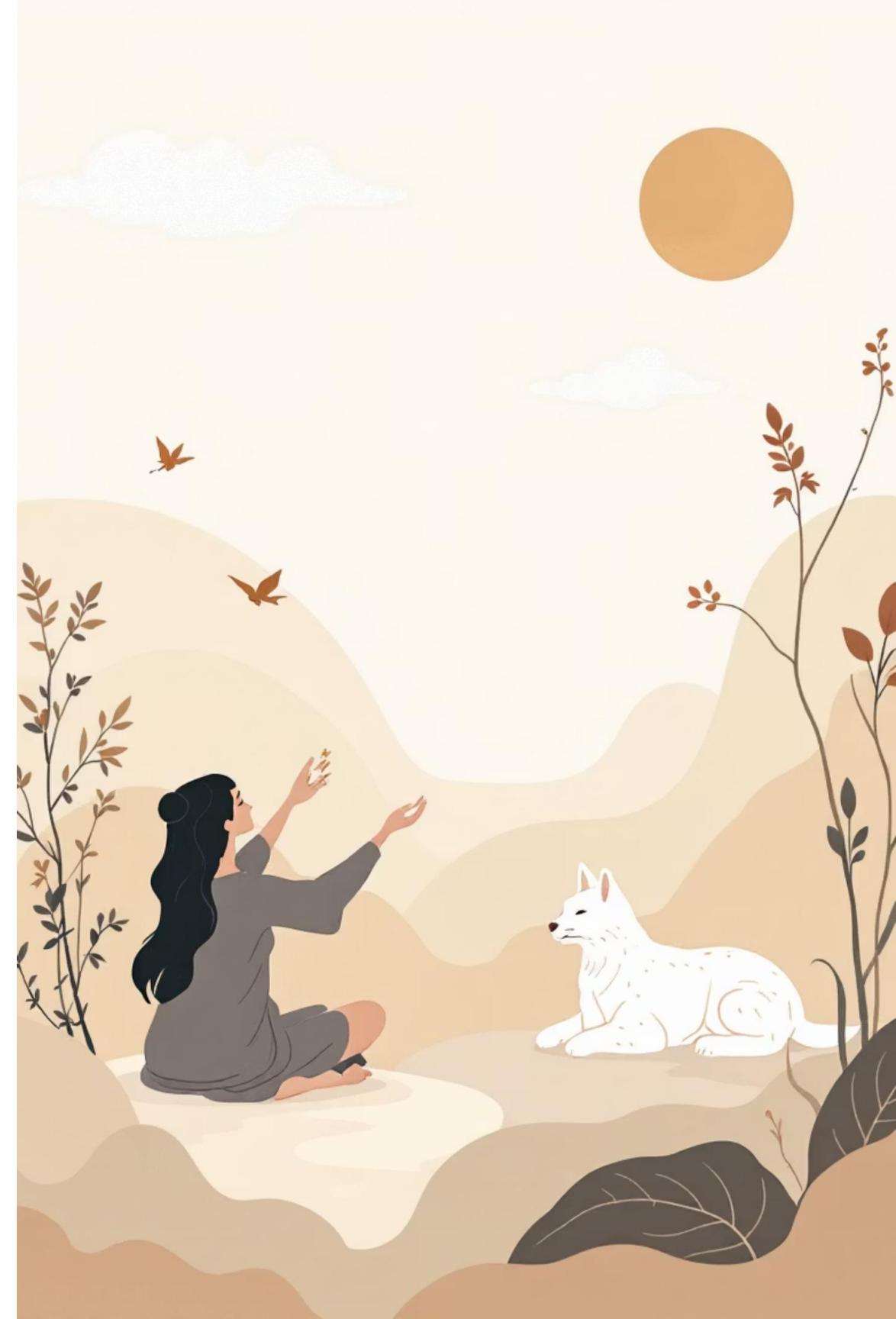


AI Vaidya: Building an Intelligent Q&A Assistant for Ayurveda Knowledge

Unlocking ancient wisdom with cutting-edge artificial intelligence to make Ayurveda knowledge accessible to everyone.



The Challenge: Unlocking Ayurveda's Vast Wisdom

Scattered Knowledge

Ayurveda, a 3,000+ year-old holistic medical system, holds rich texts and research, but this knowledge is scattered across ancient books, research papers, and websites—mostly unstructured and hard to search.

Language Barrier

Traditional terms like “dosha” are Sanskrit-based and don’t fit standard language models, creating a significant barrier to modern search.

Accessibility Gap

Our goal is to bridge this gap, making vast and complex Ayurvedic knowledge easily accessible through natural language Q&A.



Our Solution: An AI-Powered Ayurveda Q&A System



01

Data Ingestion

Ingest diverse text sources, including classical Ayurvedic books and research papers, to build a comprehensive knowledge base.

02

Concept Understanding

Develop AI models that understand complex Ayurvedic concepts, including Sanskrit terms transliterated into English.

03

Natural Language Answers

Answer user questions in natural, conversational language with high accuracy and contextual relevance.

04

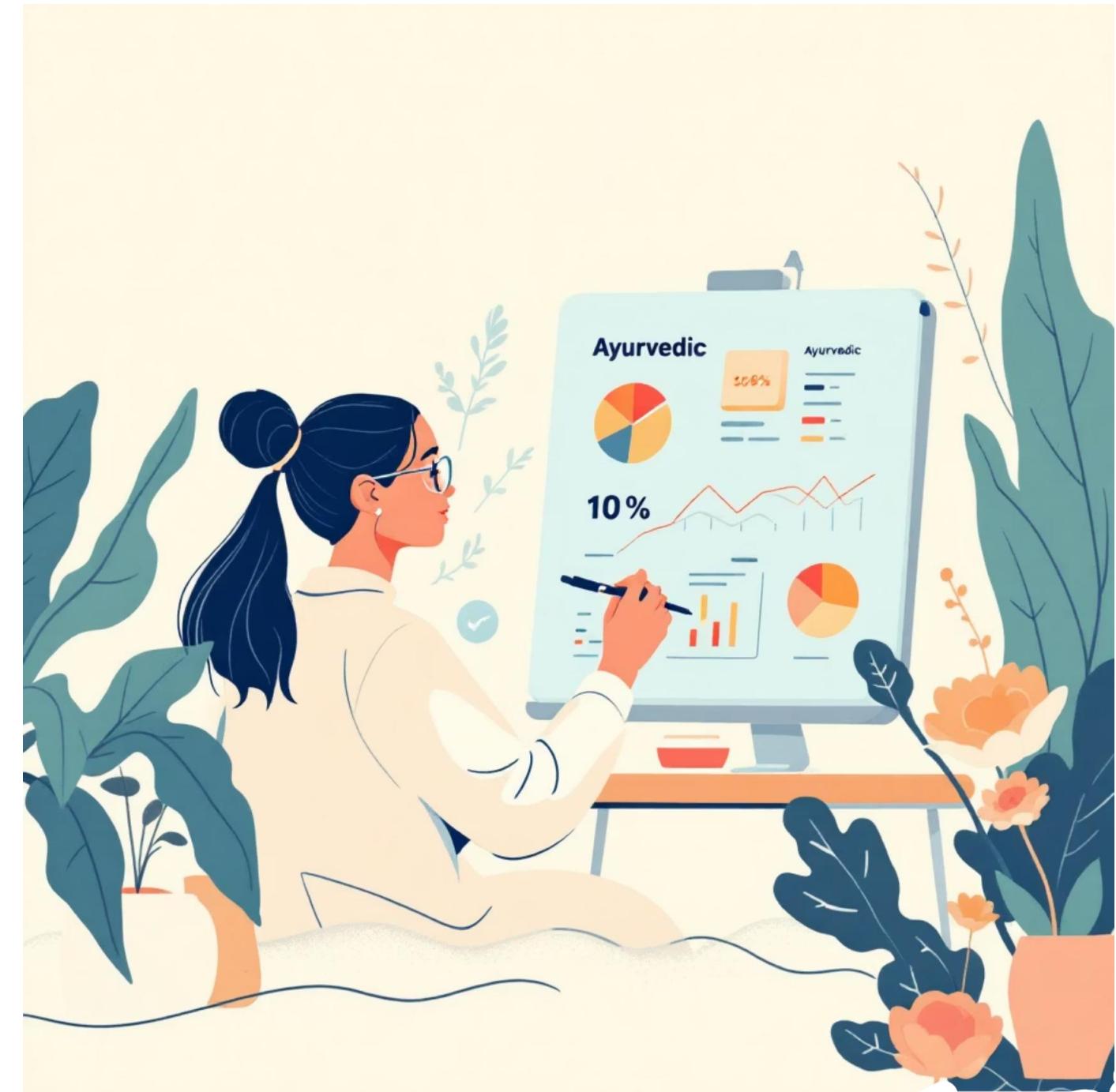
Accessible Delivery

Deliver solutions via cloud-hosted APIs and user-friendly mobile apps for wide accessibility and seamless user experience.

Data Collection & Custom Annotation

To train our AI, we meticulously curated hundreds of question-answer pairs from various Ayurvedic texts and research PDFs. This manual effort ensures high-quality, domain-specific data.

Recognizing the unique challenges of Ayurvedic terminology, we developed a custom annotation tool. This tool allowed us to precisely label data for training, as no off-the-shelf solution met our specific needs.



Technical Innovations: Fine-Tuning AI for Ayurveda

BERT Model Fine-Tuning

Fine-tuned a transformer-based BERT model on our curated dataset for domain-specific understanding of Ayurvedic contexts.

Semantic Cluster Visualization

Visualized semantic clusters to validate and ensure meaningful concept grouping within the AI model.



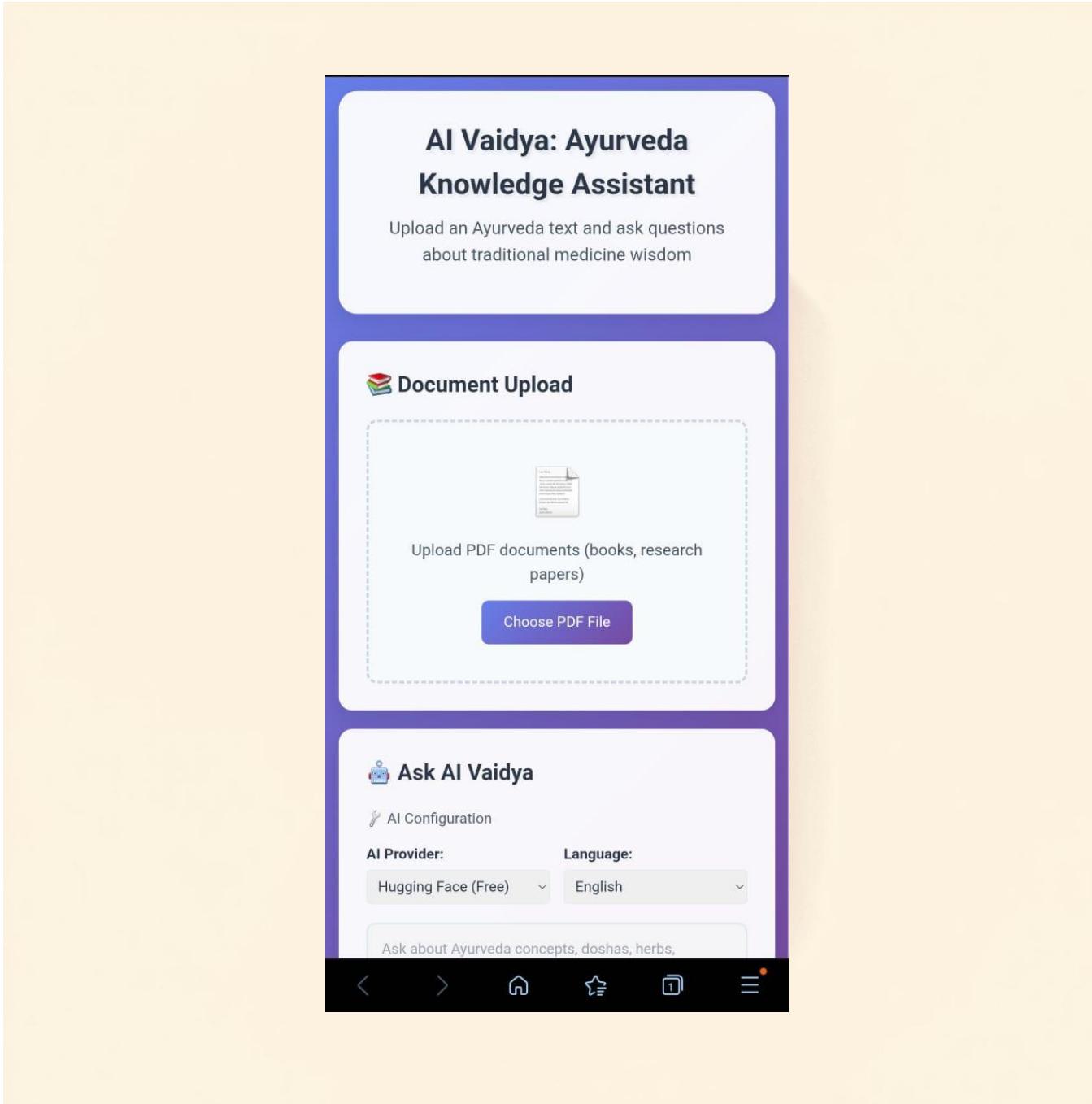
Custom Word Embeddings

Trained custom Continuous Bag-of-Words (CBOW) word embeddings to accurately capture the nuances of Ayurvedic terminology.

High Precision & Low Hallucination

Achieved 92% precision in answering relevant questions while minimizing AI hallucinations, ensuring reliable information.

User Experience: Making Ayurveda Knowledge Accessible



Intuitive Mobile UI

We built a cross-platform mobile app UI designed for easy and natural user interaction, making Ayurveda knowledge just a tap away.

Context-Aware Answers

Users can ask questions like “What are doshas?” and receive precise, context-aware answers that simplify complex Ayurvedic principles.

Empowering Exploration

The system enables practitioners, students, and enthusiasts to explore the vast and profound world of Ayurveda effortlessly.

The Future of AI Vaidya: Expanding Ayurveda's Reach

Global Knowledge Expansion



Plans to integrate more texts, multilingual support, and interactive learning tools to reach a wider audience.

Personalized Ayurvedic Guidance



Enhance personalized Ayurvedic guidance using AI-driven Prakriti (constitution) and symptom analysis.

Collaborative Growth



Collaborate with leading Ayurveda institutions to refine and expand the knowledge base, ensuring accuracy and depth.

Transforming Healthcare Solutions



Join us in transforming ancient wisdom into accessible, intelligent healthcare solutions for the modern world.



Thank You

For inquiries or to learn more about AI Vaidya, please visit our website.

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