

Transforming Government Agricultural Services with an **AI-Powered Multilingual Advisory Platform**



CUSTOMER SUCCESS STORY

ABOUT THE CLIENT:

A state-level agricultural department serving over **10 lakh farmers**, responsible for delivering policy updates, crop advisories, and weather insights to improve statewide agricultural productivity and farmer awareness.



INDUSTRY:
GOVERNMENT



BUSINESS CHALLENGES



No centralized digital system to deliver policy, crop, and weather updates to farmers.

01



Overreliance on informal, word-of-mouth communication channels.

02



Limited access to structured, reliable agricultural data.

03

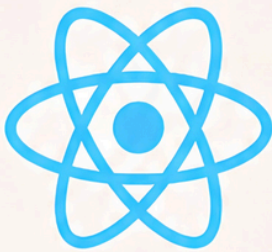


Inability to provide timely information in farmers' preferred local language.

04

TECHNOLOGIES USED

01



React.js

02



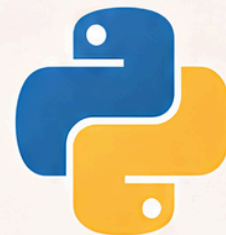
Azure Cosmos DB

03



SQL

04



Python



SOLUTIONS OFFERED:



Developed an AI-powered multilingual AgriBot using deep learning and NLP for real-time advisories.

01



Built a retrieval-based system to deliver updated policy, crop, mandi, and weather information.

02



Enabled multimodal support with voice interaction, text retrieval, and crop disease image detection.

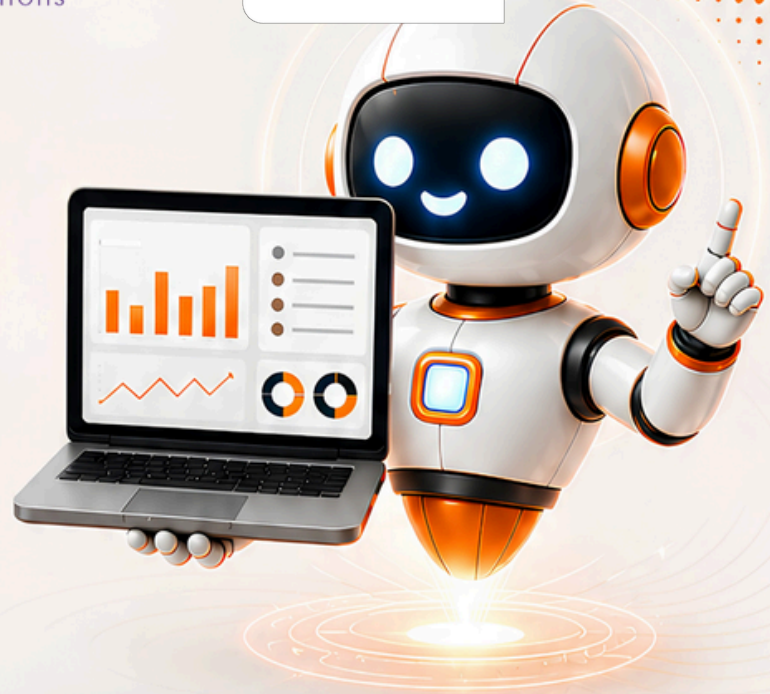
03



Deployed on Azure with CI/CD, complete monitoring via Azure Monitor, Application Insights, and CosmosDB.

04

BUSINESS IMPACT:



Farmers now receive real-time policy, crop, and weather updates directly through the system.

01



Major shift from manual or word-of-mouth information to reliable, automated insights.

02



Significant improvement in accessibility, with a large share of interactions happening in Punjabi.

03



Enhanced decision-making for farmers, reducing risk and improving agricultural outcomes.

04



A scalable, cloud-based platform that can grow with future features such as AI phone-call advisory support.

05