IBM AICTE PROJECT

FINANCIAL AI AGENT

Presented By:

Student name : Aniket Kumar

College Name & Department :DSEU Dwarka Campus, new Delhi

Department: CSE



OUTLINE

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PROBLEM STATEMENT

An AI Agent for Digital Financial Literacy, powered by RAG (Retrieval-Augmented
Generation), helps users understand and navigate essential financial tools and practices.
It retrieves reliable content on using UPI, avoiding online scams, understanding interest rates,
budgeting, and personal finance management from government portals, banking websites, and
educational platforms.

With multilingual support, users from diverse backgrounds can interact in their preferred language and ask questions like "How do I send money via UPI?" or "What is a safe interest rate for a loan?" The agent ensures financial literacy is accessible, personalized, and culturally inclusive. This AI-driven assistant empowers users with knowledge, protects them from fraud, and builds confidence in digital finance.



TECHNOLOGY USED

IBM cloud lite services

Natural Language Processing (NLP)

Retrieval Augmented Generation (RAG)

IBM Granite model

IBM Watsonx.ai.Studio

Vector index (Watsonx.ai)



IBM CLOUD SERVICES USED

- IBM Cloud Watsonx Al Studio
- IBM Cloud Watsonx Al runtime
- IBM Cloud Agent Lab
- IBM Granite foundation model
- IBM CLOUDE IAM
- IBM Cloud Object Storage



This project stands out because it addresses a real-world need by helping people understand and navigate digital finance

WOW FACTORS

This agent will significantly reduce research time, improve the quality of literature reviews, help early-stage researchers find direction, and foster interdisciplinary collaboration by making knowledge more accessible and actionable.

Unique features:

Semantic search across research papers, journals, and datasets

Auto-summarization of selected papers

Citation and reference analysis to trace influence

Recommendation of research papers based on a user's current topic

Trend analysis over time for specific keywords or domains.

Collaboration mapping: suggests potential co-authors or institutions based on similar research interests.

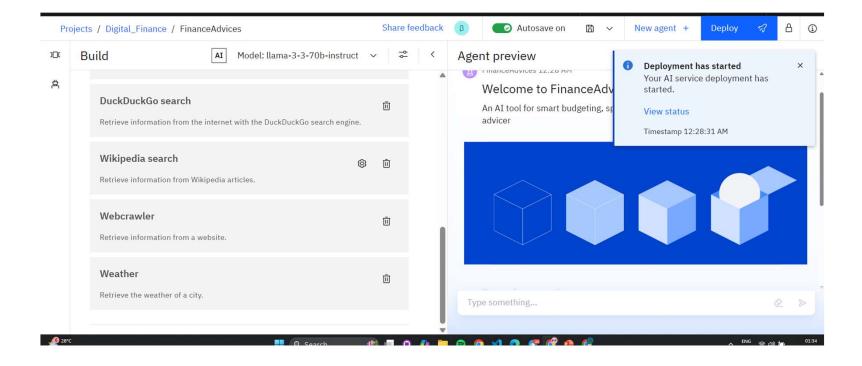


END USERS

- General Public with Low Financial Literacy
- Non English speakers
- Students and young adults
- Senior citizen
- And first time digital user

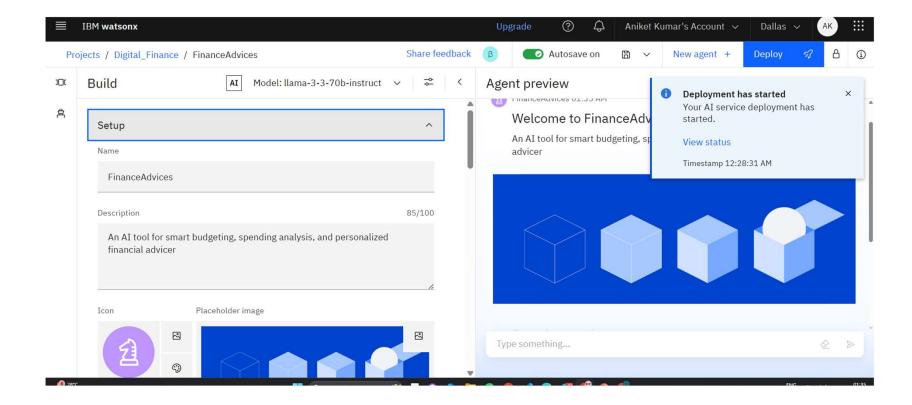


RESULTS - TOOLS



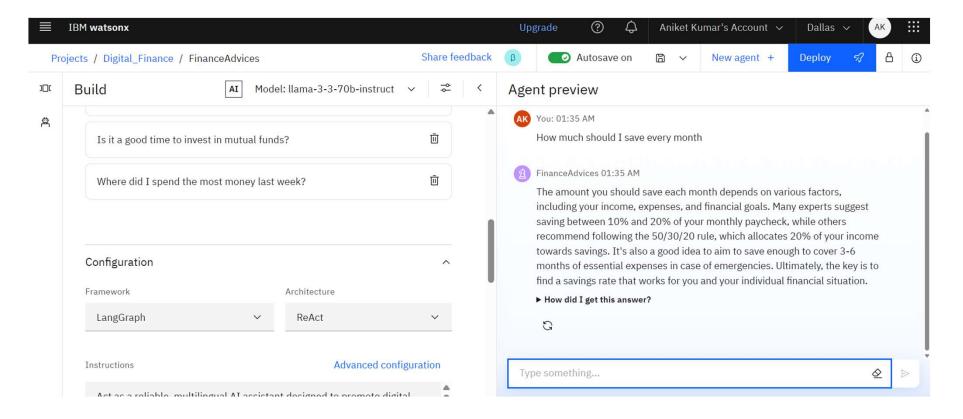


RESULTS - SETTING UP





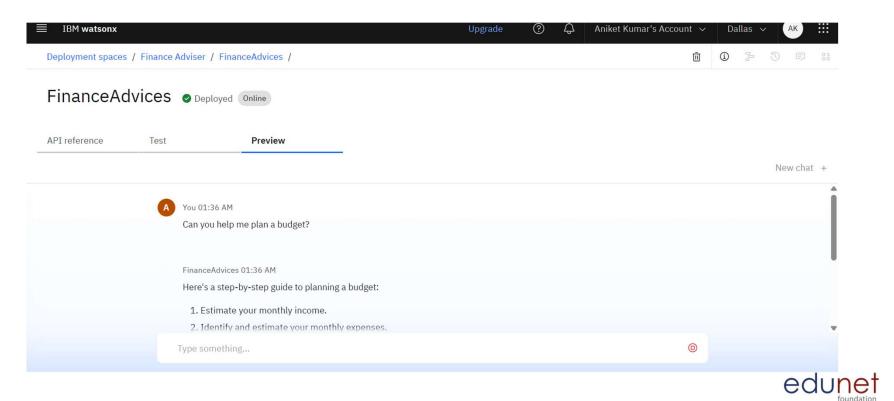
RESULTS – AGENT WORKING





RESULTS

Deployed AI Agent



CONCLUSION

- The agent can generate reports, suggest hypotheses, and even draft sections of research papers.
- It saves time by automating repetitive tasks like citation management and data extraction.
- Research Agents enhance efficiency, accuracy, and innovation in both academic and industrial R&D.



FUTURE SCOPE

- Multilingual Research Support
- Voice-Activated Research Assistant
- Real-Time Collaboration Features
- Research Gap and Novel Topic Identification
- Integration with Publishing Platforms
- Al-Assisted Paper Drafting



IBM CERTIFICATIONS

Screenshot/ credly certificate(getting started with Al)





Attach your RAG LAB certificate here

Completion Certificate

This certificate is presented to aniket kumar

for the completion of

Lab: Retrieval Augmented Generation with LangChain

(ALM-COURSE_3824998)



IBM SkillsBuild



THANK YOU

