CAPSTONE PROJECT

IPL MATCH ANALYSIS USING AI

Presented By:

Student name: Manali Chaturvedi

College Name: United College of Engineering and Research, Prayagraj

Department: Computer Science and Engineering



OUTLINE

- Problem Statement
- Technology used
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- Git-hub Link
- Future scope
- IBM Certifications



PROBLEM STATEMENT

Challenge:

Difficulty in analyzing and interpreting large volumes of IPL match data.

Manual analysis is time-consuming and prone to errors.

Proposed Solution:

An AI Research Agent that utilizes Natural Language Processing (NLP) and Retrieval-Augmented Generation(RAG) to analyze IPL match data efficiently.



TECHNOLOGY USED

IBM cloud lite services

Natural Language Processing (NLP)

Retrieval Augmented Generation (RAG)

IBM Granite model



IBM CLOUD SERVICES USED

- IBM Cloud Watsonx Al Studio
- IBM Cloud Watsonx Al runtime
- IBM Cloud Agent Lab
- IBM Granite foundation model



WOW FACTORS

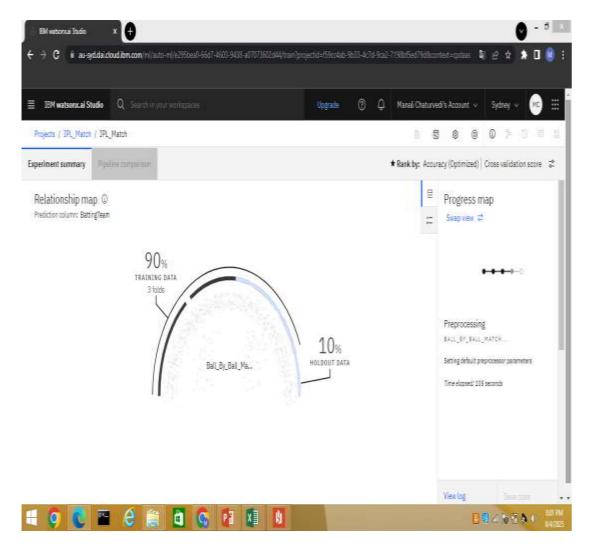
- Key Features:
- Semantic search for match statistics and player performance.
- Auto-summarization of match reports.
- Citation and reference analysis for historical match data.
- Recommendations for players based on performance trends.
- Collaboration mapping for team strategies.

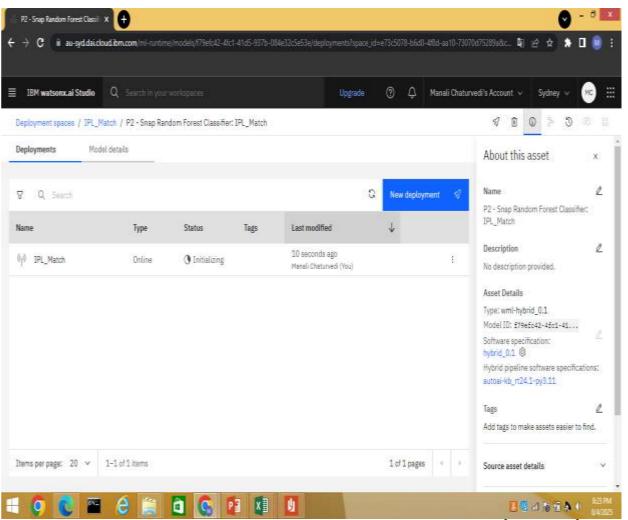


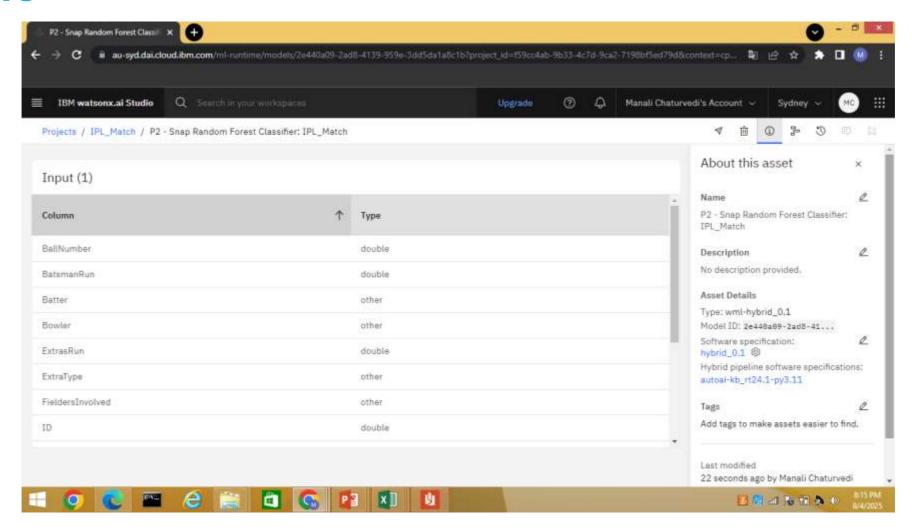
END USERS

- Target Audience
- :Cricket Analysts
- Sports Researchers
- Coaches and Team Managers
- Sports Enthusiasts

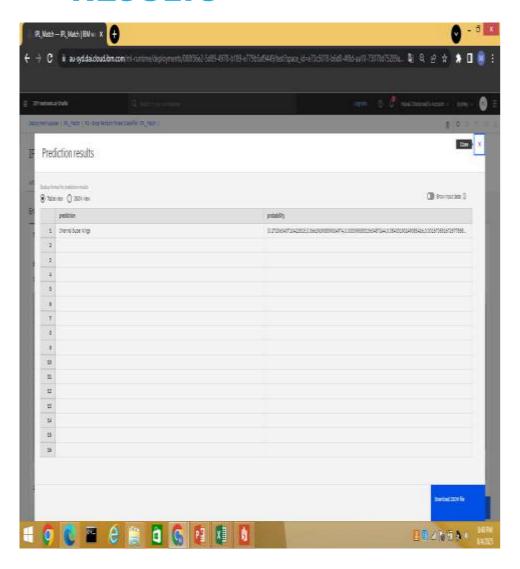


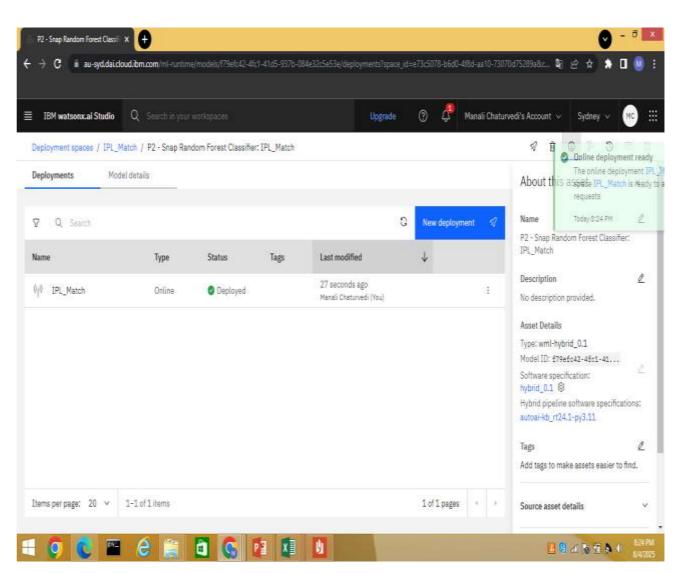




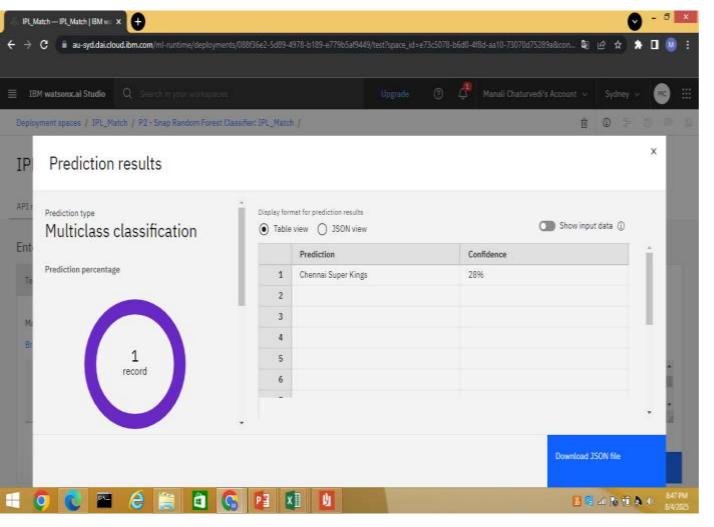


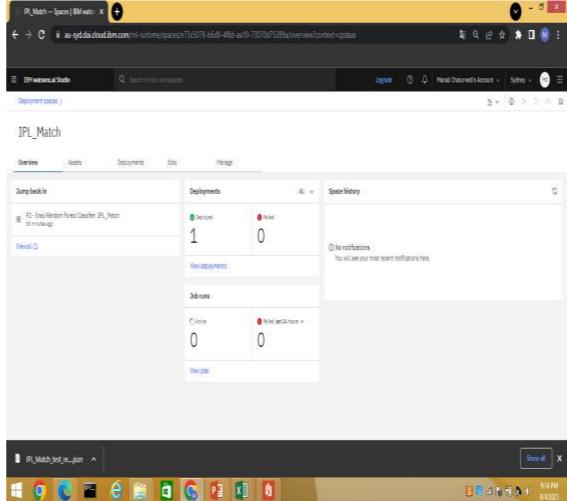














CONCLUSION

Summary:

- The AI agent automates data analysis, saving time and improving accuracy.
- It enhances the quality of insights derived from IPL match data.
- Future potential for integration with live match data for real-time analysis.



FUTURE SCOPE

- Future Enhancements:
- Multilingual support for global audiences.
- Voice-activated features for hands-free analysis.
- Real-time collaboration tools for team discussions.
- Integration with sports analytics platforms.



IBM CERTIFICATIONS



In recognition of the commitment to achieve professional excellence



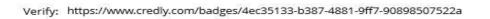
Manali Chaturvedi

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence



Issued on: Jul 28, 2025 Issued by: IBM SkillsBuild







Completion Certificate



This certificate is presented to

Manali Chaturvedi

for the completion of

Lab: Retrieval Augmented Generation with LangChain

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 01 Aug 2025 (GMT)

Learning hours: 20 mins

In recognition of the commitment to achieve professional excellence



Manali Chaturvedi

Has successfully satisfied the requirements for:

Journey to Cloud: Envisioning Your Solution



Issued on: Aug 01, 2025 Issued by: IBM SkillsBuild



GITHUB LINK

https://github.com/ManaliChaturvedi/IPL-Match-Analysis



THANK YOU

