CAPSTONE PROJECT

AGENTIC CAREER COUNSELING COMPANION

Presented By:
Student name : B.Anusha
College name-Malla Reddy Engineering College For Women
Department - Computer Science and Engineering

edunet
foundation

OUTLINE

- **Problem Statement** (Should not include solution)

- **Proposed System/Solution**

- **System Development Approach** (Technology Used)

- **Algorithm & Deployment**

- **Result (Output Image)**

- **Conclusion**

- **Git-hub link**

- **Future Scope**

- **References**

edunet
foundation

PROBLEM STATEMENT

- Students face challenges in making informed career decisions due to:

- Fragmented guidance systems

- Lack of self-awareness about strengths

- Rapidly evolving job markets

- Traditional methods lack personalization and scalability.

PROPOSED SOLUTION

- An autonomous AI-powered agent to guide students in career planning.

- Analyzes academic strengths, interests, and job market trends.

- Provides real-time, personalized career suggestions.

- Powered by IBM Cloud, IBM Granite LLM, and job trend APIs.

edunet
foundation

SYSTEM APPROACH

- An autonomous AI-powered agent to guide students in career planning.

- Analyzes academic strengths, interests, and job market trends.

- Provides real-time, personalized career suggestions.

- Powered by IBM Cloud, IBM Granite LLM, and job trend APIs.

edunet
foundation

ALGORITHM & DEPLOYMENT

- 1. Collect student academic data, skills, interests.

- 2. Analyze input with IBM Granite for pattern matching.

- 3. Fetch job trends via API (LinkedIn, Naukri, etc.).

- 4. Recommend career paths and skills to develop.

- 5. Deploy application and chatbot on IBM Cloud Lite.

RESULTS

RESULTS

RESULTS

RESULTS

RESULTS

Deployed AI agent
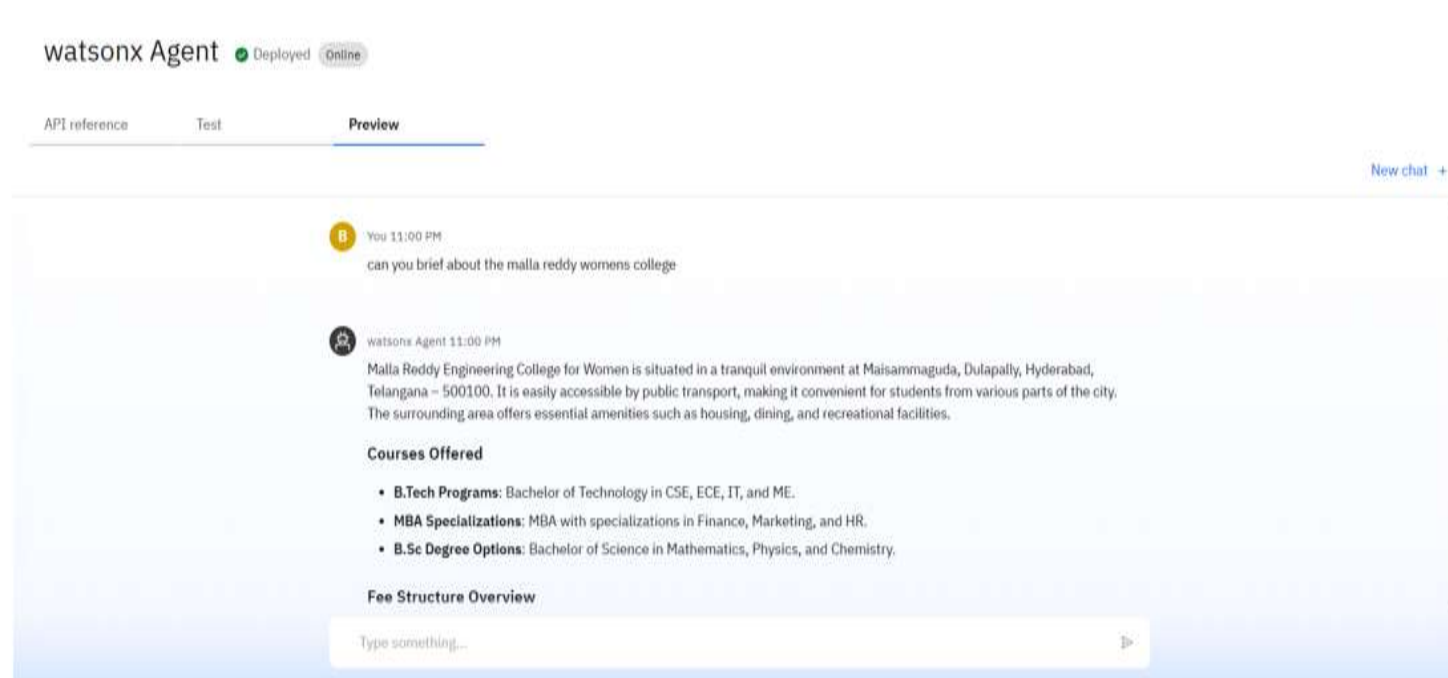
CONCLUSION

- The system provides scalable, intelligent career guidance.

- Helps students identify suitable career paths confidently.

- Reduces manual intervention while improving decision quality.

- Ensures alignment between skills, interests, and market demand.

GIT-HUB LINK

- **GitHub Repository:**
  All project files (PPT, Vector Index document, screenshots, and deployment link) are available at:
  https://github.com/Anusha-236/Agentic-career-counseling-companion.git

FUTURE SCOPE

- Integrate AR/VR for immersive career demos

- Blockchain for secure certificate validation

- Deeper analytics with psychometric tests

- National-level education system integration

REFERENCES

- IBM Cloud: https://www.ibm.com/cloud

- IBM Granite: https://www.ibm.com/watsonx/granite

- LinkedIn & Naukri job APIs

- Educational Psychology Research Articles

IBM CERTIFICATIONS
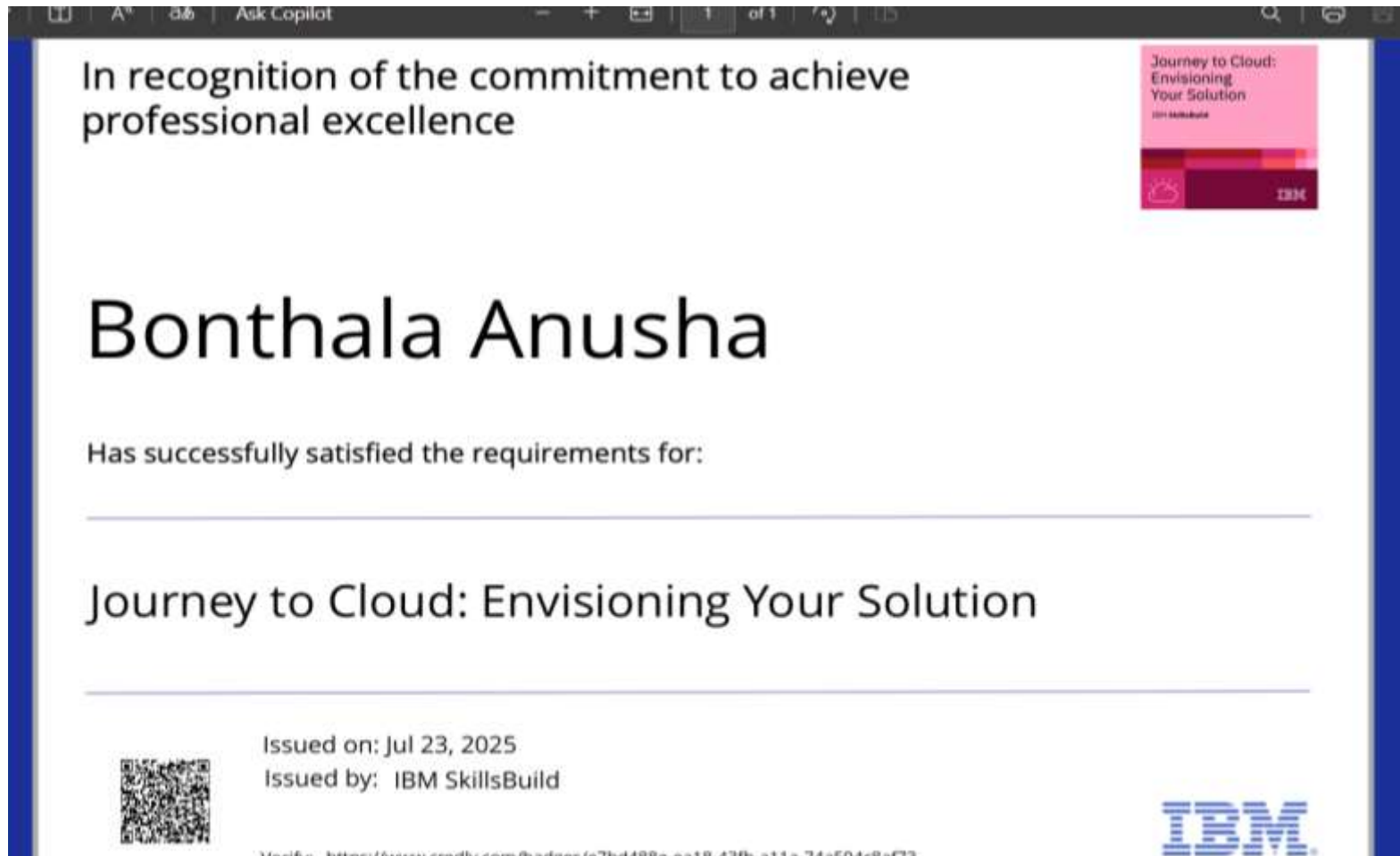

In recognition of the commitment to achieve professional excellence

Getting Started with Artificial Intelligence
IBM SkillsBuild

Bonthala Anusha

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence

Issued on: Jul 18, 2025
Issued by: IBM SkillsBuild

Verify: https://www.credly.com/badges/93aac5ee-1585-4b54-8b73-c70eeadce9a1

IBM

IBM CERTIFICATIONS

IBM CERTIFICATIONS

THANK YOU