

Infosys Springboard Virtual Internship 6.0

Completion Report

Team Details :

Batch Number:9

Start date:27/11/25

Names:1.Aditi 2.Hanshitha Reddy 3.Harshini 4.varshini chintha

Internship Duration: 8 Weeks

1. Project Title

Intelligent Recipe Generator

2. Project Objective

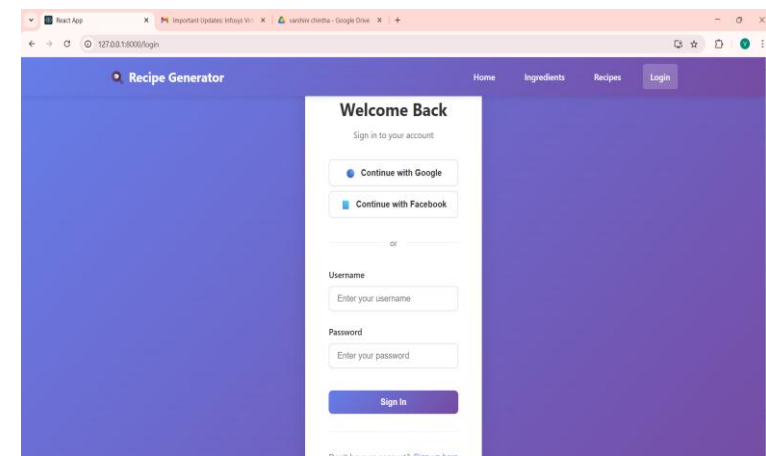
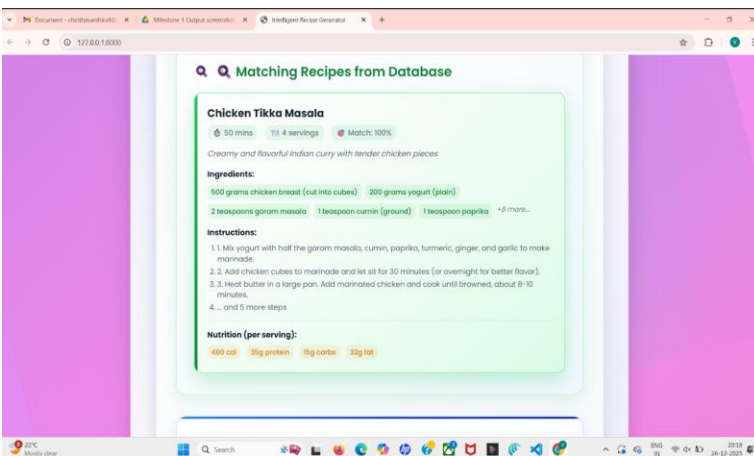
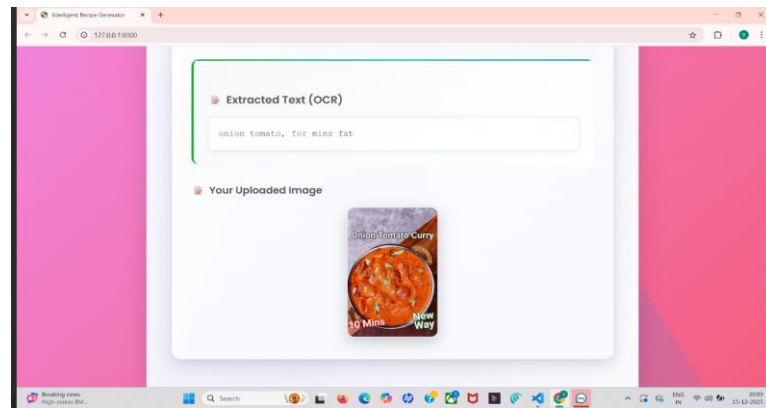
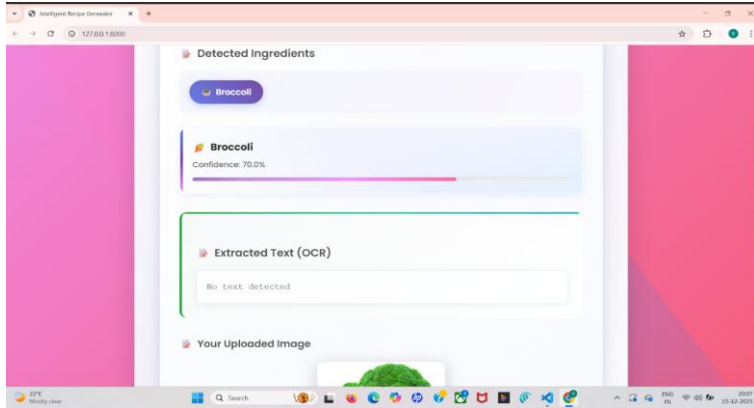
The objective of this project is to design and develop an AI-based intelligent recipe generator that identifies ingredients from images or text input and recommends suitable recipes with step-by-step cooking instructions.

3. Project description in detail

The Intelligent Recipe Generator integrates Computer Vision, Machine Learning, Deep Learning, and Natural Language Processing. Ingredient recognition is achieved using CNN-based models and OCR. A recommendation engine suggests recipes based on ingredient matching, and NLP models generate clear cooking instructions, making it a real-world smart cooking assistant..

4. Timeline Overview

Week	Activities Planned	Activities Completed
Week 1	Project setup, requirement analysis, and planning	Project requirements finalized, tools and environment set up
Week 2	Learning image processing concepts and CNN basics	Studied CNN models and image preprocessing techniques
Week 3	Ingredient recognition implementation	Implemented CNN-based ingredient detection from images
Week 4	OCR integration and backend API development	OCR added for text-based ingredients and backend APIs created
Week 5	Database design and recipe data collection	Recipe database created and populated with datasets
Week 6	Recipe recommendation system development	Implemented recommendation logic based on ingredients
Week 7		User interface designed and



7. Challenges Faced

Challenges included accurate ingredient detection and OCR noise handling. These were addressed through preprocessing and optimization techniques

8. Learnings & Skills Acquired

Skills gained include Python, ML, DL, NLP, API development, database handling, and deployment.

9. Testimonials from team

The project enhanced teamwork, technical skills, and confidence.

10. Conclusion

This project successfully demonstrates the application of AI in solving real-world problems.

11. Acknowledgements

We thank Infosys Springboard and mentors for their guidance and support.