

# AYUSH KUMAR SINGH

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Bengaluru, Karnataka



## SUMMARY

Final-year B.Tech Computer Science student with practical expertise in full stack development, web technologies, and software engineering. Proficient in Python and web development technologies. Developed and deployed real-world projects, including a hybrid FMCG recommendation system and a file-sharing platform. Completed internships focused on responsive web design and machine learning. Recognized for innovation and research excellence; passionate about building scalable, user-centric software solutions.

## PROJECTS

### FMCG Recommendation System

08/2024 - 01/2025 Bengaluru, Karnataka

Technologies Used: Python, Flask, HTML, CSS, JavaScript, SQLite

- Developed a personalized FMCG Recommendation system for middlemen to improve their portfolio of products they can deal in using python at backend and building a web framework using Flask.
- Implemented a weighted combination of content-based filtering and average ratings resulting in better recommendations based on the user's current dealing and highly rated products.

### File Sharing System

02/2024 - 04/2024 Bengaluru, Karnataka

Technologies Used: MERN Stack

- Developed a simple file sharing system for sharing files, documents, images, etcetera via links using MERN Stack with a minimalistic frontend design.

## EXPERIENCE

### Frontend Development Intern

IBM SkillsBuild

02/2023 - 02/2023 Bengaluru(Remote)

Internship focusing on Front End Development

- Completed an internship with IBM SkillsBuild, where I built responsive web applications using HTML, CSS, and JavaScript through mentor-led sessions and self-paced learning modules.

### Machine Learning Intern

Suven Consultants & Technology Pvt Ltd

01/2023 - 02/2023 Bengaluru(Remote)

Internship focusing on Machine Learning

- Built and optimized ML models with hands-on experience in data preprocessing, training, and evaluation.

## PUBLICATION

### A Hybrid Recommendation System for FMCG Middlemen: Integrating Content-Based and Collaborative Filtering

IJRASET

03/2025

Developed a hybrid recommendation system using content-based and collaborative filtering (TF-IDF, cosine similarity, user ratings) to deliver personalized FMCG product suggestions and address the cold-start problem.

## EDUCATION

### Bachelors of Technology in Computer Science and Engineering

CMR University | CGPA - 7.46

12/2021 - 06/2025 Bengaluru, Karnataka

## TECHNICAL SKILLS

Python Data Structures and Algorithms

HTML CSS JavaScript Node.js

Express.js React Web Development

SQL PostgreSQL Git Design Thinking

## KEY ACHIEVEMENTS



### Exceptional Research Award

Recognized with Exceptional Research Award for research activities conducted on the topic of landfills (SDG-12)



### Spirit of Innovation Award

Recognized with Spirit of Innovation Award for displaying innovative project showcased on Design Thinking Day 'CAUSE 2023'



### Leadership in the VUCA world

Gained insights into navigating challenges and leading effectively in volatile, uncertain, complex, and ambiguous environments

## TRAINING / COURSES

The Complete Web Development Bootcamp - Udemy

Python Data Structures and Algorithms - Udemy

Self-directed Emotional learning for Empathy and Kindness(SEEK) - UNESCO MGIEP

## TEST SCORES



eLitmus pH Test : 79.42 percentile