

# RITHESH ASANTHULA

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[leetcode.com/rithesh10](https://leetcode.com/rithesh10)

## About Me

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- Computer Science undergraduate with practical experience in full-stack development using Java, Python, JavaScript, React.js, Node.js, and SQL. Passionate about building scalable, user-centered applications—ranging from GenAI-powered tools to real-world productivity solutions. Familiar with Docker and Kubernetes; currently expanding knowledge in AWS and cloud technologies. Strong problem-solving and collaboration skills, eager to grow in dynamic, fast-paced environments.

## Technical Skills

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**Languages:** Java, JavaScript, Python

**Web Development:** Node.js, Express.js, Flask, React.js, Tailwind, HTML, CSS

**Databases:** MySQL, MongoDB

**Tools and Platforms:** Git, GitHub, Linux, Docker, Postman, VS Code, Windows

**Others:** Full Stack Development, Data Structures and Algorithms, Problem Solving, Database Management Systems

## Education

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**Keshav Memorial Institute of Technology, Hyderabad**

**November 2022 - Present**

*Bachelor of Science in Computer Science*

*8.2 CGPA*

**Sri Chaitanya Junior College, Hyderabad**

**2020 - 2022**

*Maths, Physics, Chemistry MPC*

*94 percent*

**Carmel Convent High School, Mancherial**

**2019 - 2020**

*Secondary School Certificate (SSC)*

*10 GPA*

## Projects

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**GenAI-Based Workout Assistant** | *MERN, OpenCV, LLM*

**Jan 2025**

- Built a full-stack web application using the MERN stack to generate personalized workout and diet plans.
- Integrated a fine-tuned LLM to recommend customized routines based on user goals and preferences.
- Implemented a diet recommendation system considering fitness goals, dietary habits, and budget constraints.
- Designed a dashboard to track progress, log workouts, and monitor diet adherence.
- Used cookies for secure authentication and authorization of users.
- Stored exercise images and descriptions in MongoDB for dynamic frontend visualization.
- Deployed the application and maintained version control on GitHub.
- [github.com/rithesh10/workout2](https://github.com/rithesh10/workout2)

**ATS-Based Resume Parser** | *Python, NLP, Flask, Sentence Transformers, MongoDB*

**Mar 2025**

- Developed a resume parser using Python and NLP techniques to extract structured data from resumes.
- Used Named Entity Recognition (NER) to detect name, contact info, skills, experience, and education.
- Leveraged Sentence Transformers and cosine similarity for matching resumes with job descriptions.
- Stored and queried parsed resume data using MongoDB.
- Created a frontend dashboard to display ATS compatibility scores and parsed resume insights.
- Fine-tuned NLP models to improve parsing accuracy and semantic understanding.
- [github.com/rithesh10/ResumeProject](https://github.com/rithesh10/ResumeProject)

**Mental Health Assessment Website** | *MERN, Machine Learning*

**Jan 2024**

- Built a web platform using the MERN stack to assess mental health through survey-based evaluations.
- Implemented ML models to classify depression, anxiety, and stress levels from user responses.
- Generated personalized recommendations based on assessment results.
- Designed a notification system to alert educators when critical thresholds are met.
- [github.com/rithesh10/ps](https://github.com/rithesh10/ps)

## Achievements

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- **LeetCode:** Solved 300+ problems, with a focus on algorithms such as *Backtracking*, *Graphs*, and *Binary Search*