

# Ranvitha Mothkuri

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## Summary

Driven and detail-oriented Information Technology undergraduate with strong foundations in software engineering, full-stack development, and data structures. Experienced in building dynamic web applications and machine learning models. Proficient in modern technologies including Python, C++, FastAPI, Angular, PostgreSQL. Recognized for academic excellence and hands-on project delivery. Adaptable and collaborative team player, ready to contribute to real-world engineering solutions.

## Education

<b>Chaitanya Bharathi Institute of Technology</b> B.E. in Information Technology CGPA: 9.47 / 10.00	Jul 2024 – Jun 2027
<b>Government Polytechnic Hyderabad</b> Diploma in Computer Science and Engineering CGPA: 9.85 / 10.00	2021 – 2024
<b>Sri Bharathi Vidyanikethan High School</b> CGPA: 10.00 / 10.00	2010 – 2021

## Projects

<b>Neural Flix Advisor</b> Developed a movie recommendation engine leveraging content-based filtering techniques such as cosine similarity and preprocessing. Implemented in Python using libraries like Pandas and Scikit-learn to process data, calculate similarities, and produce movie suggestions. <b>Tech:</b> Python, Pandas, NumPy, Scikit-learn, NLP	2023
<b>GeoMaps</b> Built a dynamic web application to manage spatial datasets over interactive maps. Incorporated real-time interaction across map layers and efficient geospatial data querying using PostgreSQL. <b>Tech:</b> Angular, JavaScript, HTML/CSS, PostgreSQL	2024
<b>Sudoku Solver</b> Created an efficient Sudoku-solving program in Python using recursive backtracking and constraint checks. Designed the solution for clarity. <b>Tech:</b> Python, Algorithms, Data Structures	2024

## Technical Skills

**Languages:** C, C++, Java, Python  
**Frameworks:** FastAPI, Angular, ReactJS, HTML, CSS, JavaScript  
**Databases:** MySQL, PostgreSQL  
**Tools:** Git, GitHub, Postman  
**Core:** Data Structures, OOPS, DBMS, Operating Systems

## Certificates

MongoDB Certified Developer – Python  
Full Stack Web Development (Udemy)  
Problem Solving in C (NPTEL)

## Achievements

HackerRank Badges – Java, Python

## Soft Skills

Problem-solving, Teamwork, Leadership, Time Management, Communication