

SUHAS KOTA

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SUMMARY

B.Tech Computer Science student with hands-on experience in Python, Java, and C. Skilled in data structures and algorithms, with practical exposure through academic projects and competitive programming. Built software solutions ranging from simple tools to larger team-based applications. Interested in contributing to projects with real-world impact and learning from collaborative development.

PROJECTS

Rooftop Rainwater Harvesting & Recharge WebApp

[Github Repository](#)

- Developed backend using Python and Flask to assess rooftop rainwater harvesting (RWH) and recharge potential.
- Built groundwater level forecasting models with scikit-learn, trained on 10+ years of historical rainfall data.
- Created algorithms to suggest pit/tank sizes based on user-input rooftop area and regional rainfall stats.
- Estimated potential water bill savings to increase user awareness.
- Processed large datasets with Pandas/NumPy, stored in PostgreSQL, and tested APIs using Postman and Git.

Real-Time Chat Application

[Github Repository](#)

- Built a multi-client chat server using Python sockets and multithreading to enable real-time communication.
- Implemented private (unicast) and group (broadcast) messaging with user-specific message routing.
- Developed scalable user management supporting dynamic login/logout and live session tracking.
- Integrated detailed logging for server events and user activity, outputting to terminal and log files.

EXPERIENCE

Smart India Hackathon (SIH) Participation

- Integrated machine learning models with scikit-learn to predict groundwater levels using historical datasets.
- Designed backend logic to store user input and forecast data in PostgreSQL; handled data manipulation using Pandas and NumPy.
- Developed and tested REST APIs for interaction between frontend and model logic using Postman.

Hackathon Participation

- Solved algorithmic problems under strict time constraints across competitive coding contests and hackathons.
- Applied core data structures and algorithms to create optimized solutions with reduced time/space complexity.
- Used Python libraries such as csv and re, along with custom parsing logic.
- Consistently practiced and improved performance on online judges, solving 300+ problems across platforms.

EDUCATION

Bachelor of Technology (B.Tech) in Computer Science & Engineering

Aug 2023 – June 2027

GITAM Deemed University, Visakhapatnam

High School

Apr 2011 – May 2021

Delhi Public School, Visakhapatnam

SKILLS

- **Languages:** Python, Java, Kotlin, C
- **Computer Science Fundamentals:** Data Structures, Algorithms, OOPs, Time & Space Complexity Optimization
- **Backend & Database:** REST APIs, SQL
- **Machine Learning & Data Science:** Scikit-learn, Pandas, NumPy, Matplotlib
- **Tools & Platform:** Git, GitHub, Postman, Tailscale, VS Code, Google Colab
- **Soft Skills:** Communication, Problem Solving, Adaptable in Challenges, Team Leadership and Collaboration

CERTIFICATIONS

[Android-mobile-Application-Development](#)

[Kotlin](#)

[Hackathons](#)