

SAKSHITHA A

CS graduate 2026 | Webmaster at IEEE CTSOC | Lead of BigO CP Club

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PROFESSIONAL SUMMARY

Highly motivated Computer Science student with expertise in Data Structures, Algorithms, AI/ML, and Web Development. Passionate about Competitive Programming and problem-solving. Strong background in Object-Oriented Programming (C++) and Database Management (MySQL). Aspiring to excel in AI-powered applications and software development.

PROFESSIONAL EXPERTISE & PASSION AREAS

- AI/ML
- Web Development
- Full-Stack Development (MERN, Django)
- Data structures and Algorithms
- Object Oriented Programming (OOPs) using C++ /Java
- DBMS (MySQL, MongoDB)
- Competitive programming (C / C++ /Python)

EDUCATION

BE IN COMPUTER SCIENCE AND ENGINEERING. RNSIT(Bangalore, Karnataka)

- CGPA (up to 5th Sem): 9.24/10

INTERMEDIATE EDUCATION (11th, 12th) . SKIES(ITI Layout, Bangalore)

- Total percentage: 91.83%

MATRICULATION. MMHS (Bangalore ,Karnataka)

- 10th percentage: 92.16%

PROJECT PORTFOLIO & CONTRIBUTIONS

1. Video Steganography with Web Crawler for Piracy Detection
 - Developed an AI based security model integrating video steganography and web crawling to detect piracy.
 - Improved piracy detection accuracy by 70% - 80%.
 - Technologies: Python, OpenCV, BeautifulSoup, Machine Learning, Web Scraping
2. Blockchain-Based To-Do App
 - Built a decentralized task manager using aelf smart contracts.
 - Ensured data integrity and immutability for task records.
 - Technologies: Solidity, aelf, React, MongoDB
3. AI-Powered Chatbot, Word-to-Comic, Speech-to-Story, and PDF Reader
 - Chatbot: Created an AI assistant, improving response accuracy and engagement by 80% - 90%.
 - Word-to-Comic & Speech-to-Story: Developed AI models that transformed text and speech into visual storytelling formats, enhancing user creativity.
 - PDF Reader: Designed an AI based document reader for efficient text extraction and summarization, streamlining information retrieval.
Used: Python, TensorFlow, NLP, Clarifai API, streamlit, Llama-3
4. Bank Chatbot – AI for Secure Document Processing
 - Designed a confidential document processing with Generative AI.
 - Optimized response time by 60% - 70%, ensuring 80% - 85% accuracy.
 - Technologies: Python, Clarifai API, NLP, Llama-3, Streamlit

5. AI/ML Based Flood Prediction Model

- Developed an AI Model trained with the data and images related to Bengaluru rain pattern, sewage plans.
- Accurate prediction based on the weather up to 60%-70%.
- Technologies: Python, Computer Vision (OpenCV) , AI/ML models

6. Blockchain & AI-Based Asset Transferring

- Designed an AI-integrated blockchain for secure and fraud-proof asset transfer.
- Reduced verification time by 20%, ensuring tamper-proof transactions.
- Technologies: Solidity, Python, AI Risk Detection, Gen AI, aelf

COLLABORATIVE RESEARCH & INNOVATION

Creative World Forum (CWF-24) – DC Living Labs Spain

- Collaborated globally under Elisa Palomino & BIAAF to develop a blueprint for AI in Cultural & Creative Industries (CCIs).
- Designed a Platform connecting Fashion & Education.

HACKATHONS & COMPETITIONS

- IEEE 24-Hour Competitive Programming Hackathon – Achieved a global ranking of 2458 in a highly competitive online event with total of approximately 2 Lakh Participants.
- RVCE Hackathon – Built an AI based Flood Prediction Model, leveraging AI/ML for disaster risk assessment and accuracy by 60% – 75%.
- DSATM Hackathon – Developed an AI-powered Blockchain Asset Manager, ensuring secure and intelligent asset transfers.
- IEEE Bangalore Hackathon – Created an AI-driven Bank Chatbot for secure document processing and customer interaction with accuracy by 80% – 85%.
- IEI, KSC Engineer's Day Ideathon – Presented an AI based Dog Nose Print identification idea for secure stray dog identification for vaccination purpose.

CAMPUS ACTIVITIES & VOLUNTEERING

IEEE CTSOC Student Chapter at RNSIT – Webmaster

- Led design and development of websites, posters, and event materials.
- Managed certificates and promotions, organizing 5+ events with 100+ student participation.
- Demonstrated skills in Web Development, design, and event coordination. (2023–Present)

BIGO Competitive Programming Club – Lead

- Organized coding contests and training for 100+ members.
- Contributed to problem sets, and helped in selection of new members, improving participation and performance in competitions. (2023–Present)

ACHIEVEMENTS

- 2nd Place – IEI, KSC Ideathon out of 100+ teams across Karnataka.
- Top 6 Finalist – IEEE Girl GEEKS among 50+ teams across Karnataka.
- 3rd Place – Aelf Blockchain-Based To-Do App Creation, awarded 100 ELF coins out of 100+ students.
- 3rd Place – GDSC Web Development Contest among 50+ students.