# GUGULOTHU SAI KUMAR

✉ gugulothusaikumar133@gmail.com 📞 +91-8247413490 in GUGULOTHU SAIKUMAR ⬡ Gsaikumar51

## EDUCATION

- **National Institute of Technology, Silchar** — Assam, India
  *B.Tech in Electronics and Instrumentation Engineering; CGPA: 6.69* — *July 2021 – July 2025*
- **SR Junior College, Hyderabad** — Hyderabad, India
  *Higher Secondary Certificate (HSC); Percentage: 76.6%* — *July 2019 – June 2021*
- **Government High School, Thirumalagiri** — Telangana, India
  *Secondary School Certificate (SSC); Percentage: 88%* — *July 2009 – June 2019*

## INTERNSHIP EXPERIENCE

- **SN-BOSE/NIT SILCHAR** — Remote/Onsite
  *Full-time Intern* — *May 2023 – July 2023*
  - **Developed PYQ Paper Catalogue Portal**: Created a secure web platform for accessing past year question papers, benefiting 500+ students and improving resource accessibility.
  - **Optimized Search Functionality**: Enhanced search features to ensure faster and more accurate document retrieval, reducing query response time by 25%.
  - **Collaborative Development**: Contributed as part of a 4-member team to ensure timely project delivery.
  - **Technologies**: HTML, CSS, JavaScript, SQL, Web Development, Database Management.
  - Project Link ⬡

## PROJECTS

- **Driver Drowsiness Detection System** — Python, OpenCV, TensorFlow

  - Fatigue Detection Model Implemented a CNN model to detect driver fatigue with 95% accuracy, reducing potential accidents by alerting drivers in real-time.
  - Constructed a dual-alert framework featuring distinct audio prompts coupled with bright visuals that decreased overall incident response time by four crucial seconds when faced with potential hazards on the road.
  - Adapted the fatigue detection system to maintain optimal accuracy under fluctuating ambient light levels, demonstrating compatibility with over 10 distinct vehicle setups while increasing driver alertness through real-time monitoring.

- **TextUtils - Text Processing Tool**
  - Developed a web-based TextUtils tool for converting text to uppercase, lowercase, sentence case, and capitalized case. Included features for copying text to clipboard and downloading processed text.
  - Built using HTML, CSS, and JavaScript,React.js and deployed on Vercel, ensuring seamless performance and real-time text analysis.

## SKILLS

- **Programming Languages**: C++, DSA, JavaScript, SQL,
- **Data Analytics Tools**: Power BI, Tableau, Excel, SQL Server
- **Web Development**: HTML, CSS, React.js, JavaScript
- **Tools**: Git, Visual Studio Code
- **Coursework**: Data Structures and Algorithms, OOPs, Database Management
- **Soft Skills**: Commitment towards work, adaptive & friendly nature, public speaking

## ACHIEVEMENTS

- **Competitive Programming**: 4-star rating on CodeChef and Specialist on Codeforces, solving 600+ problems.
- **Hackathon Runner-Up**: Secured 2nd place at NITS Hacks among 15+ teams.
- **DSA Mastery**: Solved 500+ problems across platforms like LeetCode and GeeksforGeeks.

## CERTIFICATIONS

- **Model United Nations**: Participated in NIT Silchar MUN Conference 2021.
- **Data Analytics**: Earned Data Analytics certification from Cisco, enhancing skills in data analysis and visualization.

## EXTRACURRICULAR ACTIVITIES

- **Culinary Enthusiast**: Passionate about creating unique and healthy meals through culinary exploration
- **Sports**: Represented NIT Silchar in inter-NIT cricket tournaments, leading the team to two final.
- **Volunteerism**: Spearheaded community outreach initiatives as an NSS volunteer.