SURYAPRASANTH T

(+91) 8220403231 [](mailto:saipraba2006@gmail.com) saipraba2006gmail.com [](https://www.linkedin.com/in/suryaprasantht?utm_source=share&utm_campaign=share_via&utm_content=profile&utm_medium=ios_app) Suryaprasanth T [](https://github.com/Surya-Repo-Ux) **Surya-Repo-Ux**[k](https://github.com/abinashlingank)

# Education

***BTech Information Technology* 2025 – Present**

*St. Joseph’s College of Engineering, Chennai CGPA 8.24*

# Experience

**Intellect Design Arena Jun 2025 – Jul 2025**

*Software & AI Developer Intern Chennai*

* Developed a secure Medical Reimbursement Claim Portal using **FOSS tools** including **React.js**, **Node.js (Express)**, and **PostgreSQL**, enabling employees to submit, track, and manage medical claims efficiently.
* Implemented **open-source libraries** like **SheetJS** for Excel-like data tables and **Socket.IO** for real-time internal communication (chat with text/voice support).
* Designed a **nested document management system** with folder/subfolder creation, preview, and upload features using community-driven file system tools.
* Proficient in **WebSocket’s, JWT Auth, REST APIs**, and **Linux-based deployment**.

# Projects

**ARIS for Research Scholars | Python, Flask, AI/ML, FOSS, Hugging Face, OpenCV***Git* **Jan 2025**

* ARIS – an open-source AI-powered research assistant designed to streamline academic workflows for students and scholars.
* Engineered a custom LLM pipeline to extract citations, contextualize research papers, and simplify scientific language for broader accessibility.
* Enhanced efficiency by 25% through fine-tuning an in-house open-source large language model for classification and language understanding.
* Promoted FOSS adoption by leveraging open-source ML frameworks (e.g., Hugging Face Transformers).

**CELLINTEL | Electron.js, Python, Flask, D3.js, PostgreSQL, FOSS** *Git* **Feb 2025**

* CELLINTEL – a law enforcement-grade telecom data analysis tool featuring interactive network visualizations, OSINT integration, and real-time link analysis.
* Built a responsive, desktop-ready UI using Electron.js and Flask, enabling multi-format data ingestion and cross-source correlation.
* Leveraged FOSS tools such as Maltego CE, SpiderFoot, and OpenCelliD APIs to expand OSINT capabilities.

# Achievements

1. \*\*HACK-A-BOT 2024\*\* - 1st Place.

2. \*\*Cyberthon 2025\*\* - Won Group Special Mention.

3. \*\*Hack India Spark 1\*\* - Competed among 200+ national teams (Singularity NET & Sharp).

4. \*\*Best UG Paper\*\* - IMSTEM 2025 International Conference.

# Technical Skills

- Programming Languages: Java, Python, C++, JavaScript

- Web Technologies: HTML, CSS

- Databases: MySQL, MongoDB

- Version Control: Git & GitHub

- Operating Systems: Unix/Linux, Ubuntu

- Tools & Frameworks: Apache, Docker, Maltego

- Cloud Services: Amazon Web Services (AWS)

- Scripting: Bash Script

# Research Paper

Published Paper | [link](https://doi.org/10.47392/IRJAEM.2025.0195)                       April 2025  
• Swarm Intelligence for Dynamic and Multi-Scale Toxicity Prediction in Drug Discovery  
• Co-authored a novel Swarm-Based Toxicity Prediction (SBTP) Model integrating Graph Neural Networks, Multi-Agent Reinforcement Learning, and stigmergy-based learning to predict drug-induced toxicity. Demonstrated a 12.7% increase in prediction accuracy and 18.4% reduction in false positives compared to traditional QSAR models, enabling dynamic, interpretable, and biologically aligned AI toxicology insights.