

Suryansh Sahu

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Education

- **Indian Institute of Information Technology, Nagpur** Nov 2022 - Jun 2026
Bachelor of Technology - Computer Science and Engineering (CGPA - 8.96)

Relevant Coursework

- Data Structures
- Analysis of Algorithms
- OOPS
- Software Engineering
- Database Management
- Computer Networks
- Operating Systems
- Machine Learning

Projects

- **CodeWithUs**  [Live](#)  [Code](#) Jun 2025
JS, ReactJS, Tailwind CSS, NodeJS, ExpressJS, Socket.io
 - Developed a **Real-Time** collaborative code editor supporting **25+** concurrent users per room with synchronized **code editing** and **live chat**.
 - Engineered support for **25+ programming languages** and **10 customizable themes** using CodeMirror, to enable syntax highlighting and UI personalization.
 - Optimized **Socket.IO** communication to ensure seamless multi-user interaction and low-latency performance.
- **Multi-Class-Skin-Disease-Classification**  [Demo Video](#)  [Code](#) Apr 2025
Python, Scikit-learn, TensorFlow, Keras, OpenCV
 - Trained and fine-tuned six CNN architectures including **ConvNeXtSmall**, **EfficientNetV2S**, **DenseNet201**, **InceptionV3**, **ResNet50V2**, and **Xception** on HAM10000 (**10,015** dermoscopic images) for **7-class** skin disease classification.
 - Applied image preprocessing techniques such as automated hair artifact removal and adaptive contrast enhancement, leading to a **5–8%** accuracy gain.
 - Evaluated models using metrics such as **confusion matrix**, **classification report**, **ROC-AUC**, and **precision-recall** curves, reaching up to **89.5% Top-1** accuracy.
- **MoneyMate**  [Live](#)  [Code](#) Mar 2025
ReactJS, Tailwind CSS, Chart.js, NodeJS, ExpressJS, JWT, PostgreSQL, Prisma ORM
 - Built a financial dashboard using **ReactJS**, **NodeJS**, and **PostgreSQL** with **JWT-based authentication** for real-time income, expenses, and budgets tracking.
 - Added multi-currency support with **real-time** exchange rates and built a **Chart.js**-based dashboard to manage and visualize financial data with auto-conversion across **5+** currencies.
 - Integrated **RESTful APIs** using **Express.js** and **PostgreSQL** to enable efficient **CRUD** operations and implement role-based access control.

Achievements

- Ranked in the **Top 1%** in the Amazon Machine Learning Challenge
- Earned Knight badge on **LeetCode** (**Top 5.79% globally**, **Max Rating: 1854**) - ssurya_29
- Solved **850+** Data Structures and Algorithms problems on **LeetCode**, **CodeChef**, and **GeeksforGeeks**
- Secured **Global Rank 1189** in LeetCode Biweekly Contest 129
- Achieved **3-star** rating on **CodeChef**, reaching a peak rating of **1615** - ssurya_29
- Secured **Global Rank 307** in Codechef Starters 130

Technical Skills

- **Programming Languages:** C, C++, Python, JavaScript, HTML, CSS, SQL, R
- **Frameworks and Databases:** ReactJS, NodeJS, ExpressJS, Tailwind CSS, PostgreSQL, MongoDB, MySQL
- **Relevant Libraries:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow
- **Tools and Platform:** Git, Github, Postman, VS Code, Docker

Position of Responsibility

- Coordinated college events including **Abhivyakti** and **Tantrafiesta** as a core event management team member.