

Shivam Saurav

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Profile

Results-driven Full-Stack and AI/ML Developer skilled in modern web technologies, machine learning, and problem solving. Experienced in building scalable applications with optimized performance, cloud computing, and API development. Passionate about data-driven decision making and UI/UX improvements.

Areas of Expertise

- Full-Stack Development (React.js, Next.js, Node.js, Express.js, API Development)
- Machine Learning (TensorFlow, Scikit-learn, Data Analysis, AI Integration)
- Database Management (SQL, MongoDB, Firebase, PostgreSQL)
- Cloud Computing (AWS, Firebase, REST APIs, CI/CD Pipelines)

Education

BTech in Computer Science (*Kalinga Institute of Industrial Technology*)

Bhubaneswar, India

CGPA: 9.02

2022-Present

Relevant Courses: Data Structures and Algorithms, OS, OOP, DBMS, CN, AI, ML

Projects and Experiences

Ask-it — AI-Powered Movie Recommendation Platform *LIVE* Next.js, ML, Python, Firebase, Tailwind CSS

- Built a personalized movie recommendation system that leverages user mood and interests using TMDB API and machine learning models (TensorFlow, Scikit-learn).
- Used Redux for state management, debouncing for API efficiency, and memoization to optimize rendering performance.
- Delivered an engaging and responsive streaming experience with improved API call efficiency and user retention.

Google Form AI Response Extension — Form Automation Tool *REPO* JavaScript, Gemini API, OCR (Planned)

- Designed a browser extension to automatically interpret and respond to Google Forms using generative AI via Google Gemini API.
- Implemented intelligent question parsing and planned OCR integration to handle image-based questions.
- Enhanced productivity and user experience by reducing manual efforts and improving form submission accuracy.

Food-City — Real-Time Restaurant Discovery Web App *LIVE* React.js, Redux, Tailwind CSS, Swiggy API

- Developed a responsive food ordering platform using Swiggy's public API to fetch live restaurant listings and menus.
- Integrated Shimmer UI for smooth loading feedback and Redux for state management across pages.
- Boosted average session time through fast navigation, clean layout, and real-time updates.

Financial Fraud Detection System — Model Comparison Python, Scikit-learn, TensorFlow, Google Colab

- Built a fraud detection pipeline using the PaySim1 dataset and evaluated five models: XGBoost, CNN, ANN, SVM, and HGB.
- Applied 3-fold cross-validation and used metrics such as accuracy, precision, recall, F1-score, and ROC-AUC to compare model performance.
- Gained hands-on experience in supervised learning, imbalanced datasets, and end-to-end model evaluation.

Certifications

- AWS Academy Graduate — [Cloud Foundations Certificate](#)
- SQL (Intermediate) Certificate — [HackerRank](#)

Skills

- **Languages:** Python, C, C++, Java, JavaScript, MySQL
- **Tools:** Git, GitHub, Figma, Visual Studio
- **Soft Skills:** Teamwork, Analytical Thinking, Problem Solving, Planning