

Saurav

birmansaurav3779@gmail.com

— **Phone:** +91-7877782147

— GitHub: github.com/SauravBirman

— LinkedIn: sauravbirman

Education

Bachelor of Technology in Computer Science & Engineering
Indian Institute of Technology, Bhilai

Aug 2022 – May 2026
CGPA: 7.14

Technical Skills

Languages: Java, Kotlin, C, Python, Groovy

Libraries & Frameworks: ReactJS, TensorFlow, NumPy, Pandas, C++ STL

Web Development: Node.js, Firebase, MongoDB, MySQL

Tools & Platforms: VS Code, Git, GitHub

Areas of Interest: Software Development, Machine Learning, App Development

Projects

Recommender System

Nov 2024

- Developed a machine learning-based recommendation system using Python, scikit-learn, and TensorFlow.
- Processed **100,000+ data points** to train collaborative & content-based filtering models.
- Implemented hyperparameter tuning, improving accuracy by **15%** and reducing processing time by **30%**.

SY E-Commerce Website

Mar 2023

- Built a **React-based e-commerce platform** with real-time chat functionality.
- Integrated **secure Firebase authentication** for user logins, increasing security by **40%**.
- Optimized shopping cart UI, reducing cart abandonment by **15%** and improving user engagement.

Groovy Compiler

Dec 2023

- Developed a **Groovy language compiler** using **Lex & Yacc**, enabling efficient parsing.
- Implemented **lexical analysis and syntax checking**, reducing compilation errors by **25%**.
- Enhanced performance, reducing compilation time by **20%**.

Positions of Responsibility

Design Team Head — Sports Meet, IIT Bhilai

Feb 2025 – Apr 2025

- Led a team of **5 designers** to create event posters, banners, and merchandise.
- Designed promotional materials, increasing event participation by **35%**.

Registration Volunteer — MIRAZ - IIT Bhilai

Nov 2023

- Managed on-desk registrations, facilitating **300+ attendees**.
- Assisted in collecting **Rs. 20,000+** in entry fees, ensuring smooth operations.

Co-Curricular Activities

Cricket Team, IIT Bhilai

Nov 2023 – Present

- Selected as a **bowler** for the Inter-IIT Cricket Team, representing IIT Bhilai in tournaments.
- Participated in training sessions, improving bowling speed and accuracy.

Relevant Coursework

Data Structures & Algorithms, Operating Systems, Computer Networks, Database Management Systems, Machine Learning, Parallelization of Programs