

# Sahil M. Yadav

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## SUMMARY

Full Stack Software Developer with hands-on experience delivering web and mobile features from concept to deployment. Skilled in Java/Spring Boot and the MERN stack (MongoDB, Express, React, Node.js), with additional expertise in Flutter for cross-platform mobile development, integrating RESTful APIs, managing SQL/NoSQL databases, and debugging production environments to ensure reliability and scalability. Passionate about writing clean, maintainable code and collaborating across teams to build high-performance, user-centric applications.

## SKILLS

**Languages:** Java, JavaScript/TypeScript, Dart, Python.  
**Backend:** Spring Boot, Node.js/Express (REST, JWT/RBAC).  
**Frontend:** React, HTML/CSS.  
**Databases:** PostgreSQL, MySQL, MongoDB.  
**Cloud/DevOps:** AWS (EC2, S3), Docker, GitHub Actions (CI/CD).  
**Testing/Quality:** Postman.  
**Other:** Linux, Git, XMRig (Monero Mining).

## EDUCATION

### B.Tech in Computer Science Engineering

KDK College of Engineering, Nagpur

CGPA: 7.83, Graduation: 2025

### Higher Secondary Certificate (HSC)

Vijay Nimbalkar Jr. College

Percentage: 89.8%, Year: 2021

## INTERNSHIP / EXPERIENCE

### AI & Data Analytics Intern

SHELL | April 2025 – April 2025

- Worked on real-world sustainability datasets using Python in Google Colab, performing regression and clustering to analyze patterns in carbon emissions and pollution trends.
- Developed an interactive data visualization dashboard using Matplotlib and Seaborn, simplifying the interpretation of complex environmental metrics for stakeholders.
- Collaborated on an AI-based forecasting model aligned with UN Sustainable Development Goals (SDGs), assisting in data cleaning, model evaluation, and trend prediction.

### Full Stack Web Development Intern

EY GDS | Dec 2024 - Jan 2025

- Developed and deployed full-stack web applications using the MERN stack (MongoDB, Express.js, React.js, Node.js), focusing on scalability, modular architecture, and responsive design.
- Applied AI tools in web development workflows, enhancing automation and improving performance through intelligent components and dynamic data rendering.
- Followed UI/UX best practices to design intuitive user interfaces and improve accessibility, ensuring a seamless user experience across devices.

### AWS Academy Graduate

AI-ML INTERNSHIP | May 2023 - July 2023

- Completed hands-on training in machine learning using AWS cloud services, applying supervised and unsupervised learning techniques.
- Learned setup and working of Amazon EC2 using the free trial from AWS.
- Explored supervised and unsupervised learning algorithms, including regression, classification and clustering.

### Salesforce Admin

CSM IT INTERNSHIP | March 2023 - May 2023

- User Management: Created and managed user accounts, roles, profiles and permissions for a user base of 5 users.
- Implemented an automated email verification system, reducing manual verification workload by 40%.

## PROJECTS

### News Feed App - (Flutter, Dart, REST API, SQL)

<https://github.com/sahilm Yadav/newsapp-flutter>

- Developed a real-time news aggregation app using Flutter and Dart, integrating NewsAPI.org to fetch breaking news, with backend storage via SQL for bookmarking and offline reading.
- Designed a reels-style vertical scroll interface for immersive article browsing, applying UI/UX best practices to create a fast, responsive and user-friendly experience.

### Travel Website - (MongoDB, Express.js, React, Node.js)

<https://github.com/sahilm Yadav/travel-website-mern-stack>

- Built a secure, full-stack travel planning platform with JWT-based authentication, role-based access control, and an admin dashboard for managing users, trips, and bookings.
- Integrated advanced search, filter, and real-time booking features with a fully responsive React UI.

### Forest Fire Detection System - (Python, TensorFlow, OpenCV)

<https://github.com/sahilm Yadav/firedetection-Ai>

- Trained CNN with augmentation; 92% accuracy / 0.91 F1 on held-out set. Built OpenCV inference pipeline running at [actual FPS] on CPU with alert logging.
- Applied image classification, data augmentation, and real-time image analysis using OpenCV, enhancing early detection capabilities for wildfire risk management.

### BillEase - (SpringBoot, React)

<https://github.com/sahilm Yadav/BillEase>

- Built BillEase, a full-stack POS/billing platform using React, Spring Boot, and MySQL with JWT-based RBAC and secure REST APIs for catalog, orders, and users.
- Implemented end-to-end checkout a sales analytics dashboard for actionable insights.

### Monero Cryptocurrency Mining Project - (XMRig)

- Configured and managed a high-efficiency mining operation using XMRig software on optimized hardware, leveraging blockchain protocols and RandomX algorithm to achieve consistent hashrates for Monero (XMR) extraction over 7-8 months. Mined 4 Monero coins valued at approximately 1.16 lakh INR (as of July 2025).

## ACHIEVEMENT

- Full-Stack Web Development Intern – EYGDS & AICTE (2024, 6 weeks).
- AI & Data Analytics Virtual Internship – AICTE & Shell India (April 2025, 4 weeks).
- AI-ML Virtual Internship – AWS Academy (May–July 2023, 10 weeks).
- Salesforce Admin – CSM IT Services (May 2023, 1.5 months).
- Code For Bharat – Season 2 (Hackathon Participant)

## RESEARCH PAPERS

- Developed "News Feed App" (Flutter, Dart, NewsAPI.org, SQL): Built a real-time news app with a reels-style UI, optimized for UX; presented at SPARK National Conference 2024, showcasing innovation.