

TRUSHANT RATHOD

+91 7977071391 ✉ trushanrathod@gmail.com [LinkedIn](#) [Github](#)

Education

Vidyavardhini's College of Engineering and Technology

B.E in Computer Engineering University of Mumbai

Jul'22 - June'26

7.77/10 CGPA (Till Sem 7)

Technical Skills

Programming & Scripting Languages: C, C++, Python, JavaScript, TypeScript, HTML, CSS, Bash.

Databases & Frameworks: MySQL, MongoDB, Firebase, Node.js, Express.js, Flask.

Additional Skills: Git, GitHub, VSCode, Eclipse, REST API, ReactJS, Bootstrap, Tailwind CSS.

Core Concepts: Data Structures & Algorithms, OOP, Authentication & Authorization, MVC Architecture, API Design.

Key Projects

Conscia: An AI-Powered Ethical Shopping Companion

[Github](#)

- Designed and trained a **TensorFlow/Keras** neural network to classify product reviews into ethical categories using **TF-IDF**. Applied preprocessing techniques and leveraged **LIME** to interpret model predictions.
- Built an end-to-end **NLP** pipeline integrating sentiment analysis with weighted scoring to generate ethical ratings from reviews. Optimized feature extraction and inference for efficient multi-category prediction locally.
- Structured modular components for preprocessing, training, and inference to ensure maintainability and scalability. Evaluated performance using train-test splits and metrics like accuracy and confusion matrix.

Blockchain-Based Certificate Verification with IPFS

[Github](#)

- Developed **Ethereum** smart contracts in **Solidity** to store document hashes on-chain, ensuring tamper-proof verification. Deployed contracts using Remix & integrated **Web3.js** for blockchain interaction via MetaMask.
- Integrated **IPFS** to store encrypted documents off-chain while maintaining hash references on blockchain. Designed a decentralized verification workflow eliminating reliance on central authorities.
- Built a **Node.js** application enabling users to upload and verify documents through **MetaMask** wallet access. Implemented hash comparison logic to validate document integrity and prevent unauthorized modification.

SocialDash – Real-Time Social Media Analytics Platform

[Github](#)

- Developed a scalable, high-performance full-stack real-time social media analytics platform using **React** and **FastAPI** to track live growth metrics, session velocity, and milestone-based progress tracking.
- Optimized backend performance using efficient, production-grade delta-based update logic and **MongoDB** data persistence, integrating secure **Firebase Authentication** and dynamic real-time data visualization.

Conference Presentation

Conscia: An AI-Powered Ethical Shopping Companion

Presented at International Conference on Communication, Computing and Emerging Technologies (IC3ET 2026), IEEE technically co-sponsored, Feb 2026.

Work Experience

CodSoft

Dec'23 - Jan'24

Web Developer - Intern

- Developed responsive web interfaces using **Javascript**, **HTML** and **CSS**, ensuring cross-browser compatibility and optimized rendering performance. Implemented reusable UI components and structured layouts to maintain consistency across multiple web pages.
- Built interactive client-side features including form validation and dynamic elements to enhance usability. Collaborated on debugging and testing to improve application reliability and meet deadlines.

Achievements

- LeetCode Knight (Max Rating: 1976) – Ranked in the top 4.22% globally with 800+ problems solved, demonstrating strong proficiency in data structures, algorithms, and complexity optimization.
- CodeChef 3-Star Programmer (Max Rating: 1652) – Consistently applied advanced algorithmic techniques to solve time-constrained competitive programming challenges.