

# RAJ CHHALOTRE

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## Education

**Madhav Institute of Technology and Science (MITS), Gwalior**

**2020 – 2024**

*B.Tech in Information Technology (AI + Robotics)*

*CGPA: 8.21*

## Experience

### Hypergro AI

**May 2025 – Present**

*Software Development Engineer*

*Bangalore*

- Architected an AI-driven chat-based **email automation** system for **Kotak Bank**, enabling conversational content selection and generation. Built **20+ dynamic EJS templates** with AI-generated content, image templating, and async workflows—reducing campaign creation time by **90%**.
- Developed a scalable **plugins marketplace** supporting AI content generation across **6+ integrated plugins** (text-to-video, text-to-image, image editing, etc.), with plan-based feature gating for **5+ model tiers** and robust API orchestration for **3+ media formats**.
- Built a complete **referral system** with referral codes, links, dual rewards, and detailed transaction history—driving a **25% increase in new signups** and enabling **400+ referrals/month** using Remix and TypeScript.
- Engineered team collaboration features for brand admins, including email-based **member invitations**, bulk invite workflows, resend/withdraw actions, and full REST API integration, improving onboarding efficiency.

### Virtualify Software Consultancy

**Aug 2024 – May 2025**

*Software Developer*

*Remote*

- Migrated the high-traffic news website **Free Malaysia Today (10K+ daily users)** to **Next.js 15** with major UI/UX revamps, WebSub Hub integration, ISR, and real-time updates—resulting in an **85% server load reduction** and **60% faster load times**.
- Implemented **Cloudflare CDN**, load balancing, and optimized cloud storage for media assets—achieving **60% faster content delivery** and reducing database load.
- Developed the **UR AI Mastermindz** platform using Next.js, achieving a perfect **100/100 Lighthouse score**, improving Core Web Vitals, adding **5+ JSON-LD schemas**, and increasing SEO crawlability by **75%**.

## Projects

**Flow Fashion** — *AI-powered fashion trends predictor and visualizer*

**Live**

- Engineered an **AI-driven fashion trend analysis workflow** using **n8n**, extracting insights from fabrics, textures, colors, seasonal patterns, and social data for **trend prediction**.
- Built an **AI-powered dashboard** enabling **mix-and-match** attributes to generate trend-based images and convert them into **hyper-realistic ramp-walk videos** for designers/influencers.

**CineMatch** — *NLP, ML, Flask, HTML, CSS, JS*

**Live** **GitHub**

- Developed a **movie recommendation system** using **NLP-based ML models** (CountVectorizer), achieving **25% improved recommendation efficiency** and seamlessly integrated with a **Flask backend**.
- Designed a **fully responsive UI** with smooth animations and intuitive interactions for discovering **similar movies**.

## Technical Skills

**Languages & Databases:** JavaScript, TypeScript, C++, HTML, CSS, MySQL, MongoDB

**Frontend:** Next.js, React.js, React Native, Remix, Redux, Tailwind, SCSS, Shadcn UI, Material UI

**Backend:** Node.js, Express.js, GraphQL, REST APIs, Postman

**Other Skills:** AI Automation (n8n), GCP, Git, Bitbucket, CMS, Operating Systems, DBMS, OOP

## Certifications & Achievements

- Played a major role in developing our Agentic AI solution that helped the team become finalists in the **Tata Trent AgentFlow Innovation Challenge 2025**.
- Selected for the **Amazon ML Summer School 2023**, receiving ML training directly from Amazon researchers.
- Received a Certificate of Excellence in **Data Structures and Algorithms** from Coding Ninjas. [LeetCode](#), [GFG](#)
- Served as a **Student Mentor**, guiding juniors in web development technologies.