

Divyansh Mishra

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EDUCATION

Datta Meghe College of Engineering

Bachelor of Engineering in Information Technology

Airoli, Navi Mumbai

Expected 2026

Vivekanand Education Society, Polytechnic

Diploma in Computer Engineering

Chembur, Mumbai

Aug. 2020 – June 2023

PROJECTS

Trackademic | *Astrojs, Reactjs, Expressjs, Postgresql, Redis, AWS S3, Docker, Nginx, GCP*

[Code](#) | [Live](#)

- Architected a high-performance academic social network, achieving **98+ Core Web Vitals** scores by decoupling the marketing frontend from the core application to minimize JavaScript TTI.
- Eliminated redundant API calls and resolved race conditions by implementing TanStack Query for server-state management, resulting in minimal latency UI updates and a smoother user experience.
- Implemented caching using Redis for session management and PostgreSQL with Drizzle ORM for type-safe database interactions, improving data **fetch speed by 40%**.
- Configured Nginx as a Reverse Proxy to manage sub-domain routing, ensuring secure SSL termination and seamless traffic distribution across the ecosystem.
- Reduced infrastructure overhead by deploying containerized frontend and API layers to GCP Cloud Run for elastic scaling, paired with a self-hosted database layer on Compute Engine to achieve configuration control and **30% lower managed-service costs**.

PropTech | *Python, Flask, Reactjs, MongoDB, Expressjs*

[Code](#) | [Live](#)

- Developed a high-performance, responsive frontend using React.js; optimized rendering speed with **component memoization** and lazy loading to handle data-heavy property listings without performance degradation.
- Used Redux to manage the app's data, ensuring that property listings and user settings remain consistent as the user navigates, while improving performance by minimizing repeated data fetching.
- Designed a flexible NoSQL schema using MongoDB to manage diverse property data, optimizing query performance.
- Architected a decoupled system using Node.js for business logic and Python for AI computations, ensuring high performance and independent scalability of the AI processing layer.
- Developed a custom Predictive ML Engine using Scikit-Learn to estimate property valuations; trained a **K-Nearest Neighbors model** on a curated dataset of **70,000+ real estate records**, achieving high accuracy by feature-engineering variables like locality, square footage, and market density.
- Integrated Generative AI to act as a real estate consultant, providing users with contextual summaries of market trends.

TECHNICAL EXPERIENCE

Insys Technologies

April 2022 – May 2022

Web Developer

Thane

- Developed a full-stack web application using the PHP stack, focusing on server-side rendering and database management.
- Optimized site performance by implementing efficient file transfer protocols and managing remote server environments.

TECHNICAL SKILLS

Languages: Java, C++, SQL, JavaScript, Typescript, PHP

Frameworks: Reactjs, Nextjs, Node.js, Flask, WordPress, Express, Springboot

Developer Tools: Git, Docker, AWS, GCP, psql, Visual Studio, Vim

Libraries: Redux, Pandas, NumPy, Matplotlib, Scikit-learn, Drizzle ORM

CERTIFICATIONS

Introduction to Android Development - Infosys Springboard

Beginning PHP - Infosys Springboard

Automated Software Testing - Infosys Springboard