

PRIYANSHU SINGH

AI Engineer | Full Stack Developer | Machine Learning & Generative AI

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SUMMARY

AI Engineer and Full Stack Developer skilled in building production-style, AI-powered applications with Python, React, Next.js, and FastAPI. Experienced designing RAG pipelines, integrating LLM APIs, and shipping scalable REST APIs on PostgreSQL, MongoDB, and Supabase, deployed with Docker and AWS. Also applies classical Machine Learning for predictive modeling.

SKILLS

Languages: Python, JavaScript, TypeScript, SQL

Frontend: React.js, Next.js, HTML5, CSS3, Tailwind CSS

Backend: Node.js, Express.js, FastAPI, REST APIs, WebSockets, JWT Auth

Generative AI: RAG, LLM Integration (Mistral), Prompt Engineering, Vector Search

Machine Learning: Scikit-learn, Pandas, NumPy, Feature Engineering, Streamlit

Databases: PostgreSQL, MongoDB, Supabase, ChromaDB

Cloud & DevOps: Docker, AWS (EC2, ECS, ECR), CI/CD, Agile

Tools: Git, GitHub, Postman, VS Code

WORK EXPERIENCE

Full Stack Developer Intern — Charpixel Technologies

May 2026 – Present

- Engineered core workflows for QuestDoc, an online assessment platform, covering test creation, invitations, attempt tracking, automated evaluation, and result publishing.
- Built teacher and student dashboards in Next.js and TypeScript with interactive analytics for progress tracking and performance insights.
- Developed REST APIs with Next.js, TypeScript, and Supabase for authentication, test management, and secure submissions.
- Configured GitHub Actions CI/CD pipelines within an Agile team to automate builds and deployments on every push.

PROJECTS

Aria GENAI — AI-Powered RAG Platform

Next.js, React, TypeScript, Python, FastAPI, PostgreSQL, Supabase, ChromaDB, Pandas, Docker, Mistral API

- Built a Generative AI platform (Next.js/React + FastAPI) implementing Retrieval-Augmented Generation (RAG) for grounded, context-aware LLM responses via the Mistral API and ChromaDB.
- Architected 6+ modular REST API domains, including AI chat, SQL Assistant, analytics, data cleaning, and document processing, for scalable, production-style backend services.
- Built AI-powered analytics and automated data-cleaning pipelines with Pandas, plus interactive dashboards with real-time streaming responses.

Live Demo: <aria-gen-ai-nine.vercel.app>

CodeTogether — Real-Time Collaborative Code Editor

React, Node.js, Express.js, MongoDB, Socket.IO, Docker, AWS ECS, Amazon ECR

- Built a distributed, real-time collaborative code editor enabling multi-user editing via WebSockets (Socket.IO), with room-based session management and a Node.js/Express.js/MongoDB backend.
- Containerized the application with Docker and deployed it to AWS ECS using Amazon ECR, establishing a repeatable, production-style cloud deployment pipeline.
- Implemented low-latency live code synchronization and multi-user state consistency across connected clients.

Live Demo: <co-3f9c29b4982c469d9955cc84668e69ac.ecs.ap-south-1.on.aws>

Heart Disease Prediction — Machine Learning

Python, Pandas, NumPy, Scikit-learn, Streamlit, Matplotlib, Seaborn

- Performed exploratory data analysis, data cleaning, missing-value handling, label encoding, and feature engineering with StandardScaler on a clinical dataset to prepare it for modeling.
- Trained and compared six classification algorithms — Logistic Regression, Decision Tree, Random Forest, SVM, KNN, and Gaussian Naive Bayes — evaluating each on accuracy, precision, recall, F1 score, and confusion matrix.
- Built an interactive Streamlit application allowing users to input patient data, generate predictions, and compare model performance side by side.

GitHub: github.com/priyanshusingh24729/Heart-disease-project

EDUCATION

B.Tech, Computer Science & Engineering — GD Goenka University

Aug 2022 – Jun 2026

CGPA: 8+

Class XII, CISCE Board — Jiva Public School

Apr 2018 – Mar 2020

Percentage: 85%

CERTIFICATIONS

- IBM Generative AI Certification — IBM
- NPTEL Certifications — IIT
- Web Development Bootcamp — Udemy
- Microsoft Excel Certification — GD Goenka University

AWARDS

- Ideathon 2.2 Winner, GD Goenka University — recognized for an innovative, team-built solution.
- Smart India Hackathon, Participant — national-level hackathon showcasing problem-solving and creativity.

PUBLICATIONS

- Identity and Access Management — Research Paper