



# PRASHANT SHARMA

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## Education

**Dr. D Y Patil Institute of Engineering, Management and Research, Akurdi**

**Aug 2021 – May 2025**

*B.E. Computer Engineering — Honors in Data Science*

*Overall GPA: 8.8/10*

Applied Mathematics, Discrete Mathematics, Algorithms, Database, Machine Learning, Artificial Intelligence, Natural Language Processing, Cloud Computing, Blockchain

## Skills and Knowledge

**Languages:** C++, JavaScript, TypeScript, Python

**Web Technologies:** Node Js, Express, REST APIs, JWT, GraphQL, WebSockets, PostgreSQL, Prisma, Fastify, Next.js, Nuxt.js, Redis, API Security

**Devops, Cloud, ML:** Git, Github, Aws, Docker, CI/CD (GitHub Actions), Nginx, Vercel, TensorFlow, scikit-learn, Pandas, NumPy

## Key Projects

**N2N: Next Js, React, Typescript, Tailwind, Prisma, Zustand, Supabase, Teserract js, Goodle Ai SDK**



- Built a comprehensive AI-driven learning ecosystem that transforms diverse educational content into structured, materials. The platform features advanced content processing with OCR, transcription capabilities, Audio generation and generates multiple learning formats including summaries, flashcards, quizzes, mindmaps, concept matching, and term builders.
- Implemented robust multi-content ingestion system with AI-powered processing pipeline using Google AI. The system supports caching, real-time content extraction with advanced data visualization using GoJS for interactive mindmaps and knowledge graphs.

**FitMate: React, JavaScript, Jwt, Node Js, Express, Mongo Db, Npm, REST Api**



- Developed a full-stack MERN application with React.js frontend and Node.js/Express backend, implementing JWT-based authentication, MongoDB Atlas database integration, and RESTful APIs for workout management with complete CRUD operations.
- Deployed and automated cloud infrastructure using Vercel for frontend/backend hosting, implemented GitHub Actions for automated MongoDB Atlas database keep-alive scheduling, and configured secure token-based authentication with localStorage persistence and protected route middleware.

**NewsBoard: HTML5, CSS3, JavaScript, Vanilla-Js, News Api**



- Developed a responsive news website using HTML, CSS, and JavaScript with GNews API integration for real-time news fetching. Implemented CSS Flexbox layouts, responsive design with media queries, and dynamic content rendering with search and category filtering functionality.
- Successfully deployed on Vercel with proper configuration management and resolved CORS policy issues during development.

**Logistic Regression From Scratch: Python, NumPy, Pandas, Matplotlib, scikit-learn baseline**



- Implemented custom logistic regression from scratch with sigmoid activation, gradient descent optimization, L2 regularization, and class weighting for imbalanced datasets. Integrated synthetic dataset generation with configurable class distributions and feature complexity.
- Created production-ready web interface using Gradio with multiple prediction modes. Implemented real-time feature contribution analysis and model performance visualization dashboard.

## Experience

**GFG**

**May-June 2024**

*Technical Writing Freelancer*

- Wrote articles for the ed-tech platform on topics like : Alternative Hypothesis, Perception in AI agents, Ai Environments, etc.

## Achievements and Certifications

- Presented and published my research paper titled Automated multimedia summarization and Information Retrieval in the IEEE GC4T25.
- 8-week course on AWS Certified Solution Architect Associate Certification on geeksforgeeks.
- 6-week complete TensorFlow course on geeks for geeks.
- 8-week course on Aws cloud Practitioner Certification on geeks for geeks.
- 4-week course on Python For DataScience by NPTEL.