

PRATUL SINGH

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PROFESSIONAL SUMMARY

Results-driven Computer Science and Engineering undergraduate with expertise in MERN stack development, machine learning, and data analytics. Proven ability to design, develop, and deploy scalable software solutions, demonstrating strong ownership and a collaborative mindset. Passionate about leveraging AI and data-driven approaches to build innovative applications within agile, globally connected teams.

EDUCATION

VIT Bhopal University - Bhopal, Madhya Pradesh

Bachelor of Technology (B.Tech) in Computer Science and Engineering | CGPA: 8.72

Expected Graduation: 2027

Ryan International School, Kharghar | **Pace Junior Science College**, Nerul, Navi Mumbai, Maharashtra

Class 10: 88.9% | Class 12: 78.6%

EXPERIENCE

MERN Stack Social Media Platform | Independent Project | June 2025 - Present

- Architected and deployed a full-stack Twitter-like social media application using the MERN stack (MongoDB, Express.js, React.js, Node.js) and TypeScript
- Developed a dynamic and responsive front-end with React, Vite, and Tailwind CSS, featuring protected routes and state management with the Context API for authentication and notifications
- Engineered a secure RESTful API with Node.js and Express, implementing JWT-based authentication, role-based access (Admin/Editor), and middleware for error handling and uploads
- Managed data persistence for user profiles and tweets using MongoDB, including the creation of seeder scripts for initial data population and testing
- GitHub: github.com/loose-pants/twitooo

VaidyaSetu - AI-Powered Medical Support System | Team Project | Jan 2025 - Present

- Developed a medical web platform using AI for diagnosis support and doctor verification, collaborating with a 5-member team
- Designed secure login and navigation systems using Flask and MySQL, improving user experience for 100+ test users
- Integrated an NLP-based chatbot that enhanced medical report comprehension by 40% based on user feedback

Full-Stack Twitter/X Clone | Academic Project | 2024

- Architected a full-stack Twitter/X clone using the MERN stack (MongoDB, Express.js, React.js, Node.js)
- Developed a secure back-end API for user authentication and tweet CRUD operations, paired with a responsive React front-end for all user interactions
- Managed data with MongoDB and successfully deployed the complete application on Vercel
- GitHub: github.com/loose-pants/x_clone

TECHNICAL SKILLS

Domains: Data Science and Analytics, Machine Learning, Natural Language Processing (NLP), Web Development, Full-Stack Development

Programming Languages: Python, JavaScript, C++, Java, TypeScript, COBOL, Assembly

Frameworks & Libraries: React.js, Node.js, Express.js, Flask, Pandas, NumPy, Scikit-learn, TensorFlow, Seaborn, BERT

Databases: MongoDB, MySQL, Firestore

Tools & Technologies: Git, GitHub, REST API Development, Google Cloud Platform, Azure, Jupyter Notebook, Anaconda, VS Code, Matplotlib, Vite, Tailwind CSS

CERTIFICATIONS

- Modern Web Development with MERN Stack
- Microsoft Certified: Azure Data Fundamentals
- Deloitte Australia - Data Analytics Job Simulation
- Introduction to Cybersecurity - Cisco NetAcad