PRIYANSHU RANJAN

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About Me

Computer Science undergraduate with a strong foundation in programming, cloud technologies, and Artificial Intelligence. Experienced in Generative AI, neural networks, and web technologies, with projects including a Hospital Management System and an AI-powered E-commerce Chat Assistant. Currently developing AI-driven applications and building a personal website to showcase projects. Interested in applying technical knowledge to create practical, innovative solutions.

Education

VIT Bhopal University, Bhopal	8.31 GPA
Bachelor of Technology in Computer Science, Specialization in Cloud Computing and Automation	*Oct 2022 - present*
BOSTON PUBLIC SCHOOL AGRA	68.2%
12th (CBSE)	*2020 - 2021*
KENDRIYA VIDYALAYA NO1, AFS AGRA	89.6%
10th (CBSE)	*2018 - 2019*

Technical Skills

Languages: Python, C++, SQL, JavaScript, HTML/CSS
Frameworks & Libraries: React, Next.js, FastAPI, MongoDB, Tailwind CSS, LLM
Developer Tools & Platforms: Git, GitHub, VS Code, AWS (Basics), Vercel, Clerk
Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Object-Oriented Programming, Computer Networks, Operating Systems

Projects

AI-Powered E-commerce Chat Assistant | *ReactJS, MongoDB, Next.js, AI Integration*   May 2025 - Aug 2025
- Designed an intelligent chatbot that reduced customer query response time by 60% through AI-driven natural language processing.
- Automated 70% of repetitive e-commerce queries, freeing customer support teams for complex issues.
- Leveraged MongoDB for structured product catalog management, enabling retrieval of 500+ SKUs in 2 seconds.
- Increased engagement by introducing real-time personalized product recommendations, improving conversion rates.

Dishcovery | *React, Next.js, FastAPI, Python, LangChain*   Oct 2024 – Jan 2025
- Launched an AI-powered recipe assistant using LLMs (Gemini), boosting suggestion accuracy by 35%.
- Developed a React, Next.js frontend with FastAPI backend, enabling recipe search with sub 100ms response time.
- Implemented LangChain workflows for dietary adaptations (veg or non-veg), reducing recipe errors by 25%.
- Deployed on Vercel + Render with 99.9% uptime, delivering personalized meal planning to 500+ early users.

Hospital Management System | *ReactJS, Node.js, MongoDB, Clerk*   Jul 2022 – Sep 2022
- Engineered a hospital management platform that streamlined patient record operations, reducing manual paperwork by 40%.
- Developed a responsive ReactJS interface that improved staff task completion speed by 30%.
- Implemented role-based authentication with Clerk, securing sensitive patient data across 3+ user groups.
- Engineered Node.js and MongoDB backend to securely manage 1,000+ records with high efficiency.

Certifications

- Completed **Completed Nanodegree Program in Generative AI** course on Udacity.
- Completed **Introduction to Generative AI** course from Google Cloud Skills Boost.
- Completed **DevOps Fundamentals** course from IBM .

Extracurriculars and Achievements

- Selected in **GrabHack Hackathon 2025,** advancing to Round 2 with an innovative case study solution..
- Appeared in **Olympiads**, **NTSE**, and **KVPY** exams, gaining exposure to national-level competitive assessments.
- Represented school in 5+ badminton tournaments, contributing to team success.