Akshat Singh

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EDUCATION

VIT Bhopal University, Bhopal   **Oct 2022 - Aug 2026**
B.Tech in Computer Science and Engineering (CGPA: 8.02/10)

EXPERIENCE

Finlatics   **Mar 2025 - Aug 2025**
Machine Learning Intern (Remote)

- Spearheaded a supervised learning project on financial datasets, incorporating machine learning algorithms and predictive modelling to uncover trends and enhance analysis and reporting efficiency.
- Engineered and validated ML workflows to improve decision-making accuracy through reliable training, evaluation, and refinement cycles.
- Coordinated in a remote environment using version-controlled workflows to document key insights and facilitate data-driven recommendations across a team of diverse members.

PROJECTS

- **Doctor's Assist – Hospital Management System**
  - Architected a role-based hospital management platform with dedicated dashboards for patients, staff, and doctors using React.js and CSS3, delivering responsive, intuitive interfaces end-to-end.
  - Fortified secure authentication and RBAC in JavaScript to protect patient data and enforce permissioned access across patient, staff, and doctor journeys.
  - Incorporated AI/ML models for heart disease and diabetes risk prediction with explainable outputs, achieving about 85% accuracy to aid clinical decision-making.
  - Streamlined UX performance and state handling to optimize appointment, records, and task flows, improving usability across desktop and mobile contexts.
  - Integrated automated email notifications using Node.js to improve patient communication and appointment reminders effectively.

- **Flight Finder – Flight Booking Platform**
  - Constructed a full-stack flight search and booking system using the MERN stack (MongoDB, Express.js, React, Node.js), with a modern, component-driven UI in React.
  - Devised RESTful APIs in Node.js/Express.js for itinerary browsing, booking creation and management, and status tracking, ensuring reliable request handling and verification.
  - Leveraged React state-management patterns and reusable components to boost interactivity, error handling, and user navigation across key booking flows.
  - Modelled persistent data structures in MongoDB to enable searches, reservations, and user records with scalable reads/writes for growing usage.
  - Enhanced system security by implementing OAuth 2.0 authentication, safeguarding user data and improving trust in the platform.

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, JavaScript, TypeScript.
- **Web Development:** HTML5, CSS, RESTful APIs, Tailwind CSS, MERN (MongoDB, Express.js, React.js, Node.js), Agile methodologies.
- **Databases:** MySQL, MongoDB.
- **Tools & Platforms:** Git, GitHub, Docker, Figma, AWS, Vercel, VS Code, Cursor, Warp, n8n.

ADDITIONAL INFORMATION

Languages: Fluent in English and Hindi.
Achievements: Gold Medallist – Top 1% in NPTEL Cloud Computing Certification (among 23,872 students).
Certifications:

- HTML, CSS, JavaScript, TypeScript — Infosys Springboard — Jun 2025.
- SmartBridge (SmartInternz) — Full Stack Developer MERN — Apr 2025.
- MongoDB — MongoDB Developer — Apr 2025.
- IBM SkillsBuild — Journey to Cloud — Mar 2025
- PW Skills — Java with System Design — Feb 2024.