

Ayush jha

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EDUCATION

B. Tech (Computer Science and Engineering)

Vellore Institute of Technology • Bhopal • August 2022 - Present • 8.42

Class XII

Brighton International School, CBSE • VidhanSabha, Chhattisgarh • July 2021 • 75%

Class X

Brighton International School, CBSE • VidhanSabha, Chhattisgarh • May 2019 • 83.6%

SKILLS

- **Languages:** Java, C++, JavaScript
- **Skills:** Web Development, MySQL
- **Web Technologies:** React and Nextjs Framework, HTML, Tailwind CSS, Node and Express for Backend with Threejs for animation
- **Tools & Platforms:** DBMS, Github, NodeJS
- Fluent in **English, Hindi;**

EXPERIENCE

Internship

Med-Ai

January 2025-March 2025

- Engineered a responsive and **user-friendly web interface** with 3D visualization for medical insights
- Implemented **secure authentication and data handling** to comply with healthcare web standards.
- . Optimized **backend performance** and database management to ensure scalability and efficiency

PROJECTS

HealthNest

- Built a **scalable healthcare management system** with dashboards for patients, doctors, and administrators. Doctors can manage consultations, and admins oversee hospital operations, ensuring smooth and efficient functionality.
- Enabled **appointment booking, real-time data access, and secure authentication** for seamless hospital operations. Increased user engagement and operational.
- Integrated **NEET-qualified consultants**, enhancing credibility and professional medical support.
- Developed using **React.js, Node.js, Express.js, and MongoDB**, ensuring efficiency and scalability.

Lung Cancer Prediction Model

- Engineered a user-friendly platform by merging React.js with Flask and MongoDB, enhancing response times to under two seconds; streamlined workflows through efficient data retrieval mechanisms that improved overall user engagement.
- Focused on improving prediction accuracy by incorporating Three.js for 3D lung scan visualizations, providing an intuitive user experience that bridges the gap between healthcare data and actionable insights.
- Built both the frontend and backend using Flask, HTML5, CSS3, JavaScript, and Python, with a focus on optimizing accuracy and reducing response time.

CERTIFICATIONS

Full Stack Web Developers- Udemy, by Angela Yuu

NPTEL- Cloud Computing (silver + elite)

CODING

- **LeetCode:** Solved 100+ problems, demonstrating proficiency in JAVA & maintained a streak.

EXTRA CURRICULAR ACTIVITIES

Achievements

- **Research:** Currently developing a research paper on a lung cancer prediction model that integrates advanced machine learning algorithms with 3D visualization techniques to improve predictive accuracy and user interaction.
- **Hackathons:** Secured 20th place out of 300 teams in the NASA App Space Hackathon, showcasing strong problem-solving skills and innovative thinking in a high-stakes environment.
- **Technical Community:** Actively contributed as a core technical team member in both the Mozilla Club and Cisco community, facilitating technical workshops and driving community engagement.
- **Open Source:** Contributed to various open-source projects, enhancing code quality and functionality through feature development and global collaboration.
- **NPTEL Certification:** Earned an NPTEL certification in Cloud Computing with a score of 76% (Elite + Silver), highlighting advanced knowledge and skills in cloud technologies.

ADDITIONAL INFORMATION

Responsibilities

- Managed a web development workshop as part of the technical team.
- Served as a core technical team member in both the Mozilla Club and Cisco community.
- Represented my team as the lead in various hackathons.
- Currently engaged in research work related to AI.