Akash Patil

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Education

Veermata Jijabai Technological Institute (VJTI), Mumbai, Maharashtra	**2024 – Present**
Bachelor of Technology (B.Tech) in Computer Engineering, CGPA: 7.43	
Veermata Jijabai Technological Institute (VJTI), Mumbai, Maharashtra	**2021 – 2024**
Diploma in Chemical Engineering, Percentage: 97.21%	

Projects

- **LeetCode Platform with AI Assistant** 🔗   **Mar. 2025 – Jun. 2025**
  HTML, CSS, JavaScript, React, Node.js, Express.js, MongoDB, Redis, Judge0, Gemini AI, Cloudinary
  - Full-stack web platform for **solving coding problems** with live code execution via **Judge0 API**.
  - Integrated **Gemini AI** to provide **personalized hints**, in-depth **debugging assistance**, and detailed **solution explanations**, significantly improving user learning efficiency and engagement.
  - Integrated **Monaco Editor** to deliver a powerful, efficient, and responsive custom **code editor** with **syntax highlighting**, real-time feedback, and seamless **multi-language support**.
  - Provided **video solutions** via **Cloudinary** and implemented **Redis-based session management** for secure, fast, and scalable login/logout functionality.

- **Employee Task Management System** 🔗   **Sept. 2024 – Nov. 2024**
  HTML, CSS, Tailwind CSS, JavaScript, Node.js, Express.js, MongoDB
  - Built a modern web application to **manage employee tasks** with dynamic **status tracking** (New, Active, Completed, Failed), delivering a seamless user experience through **React hooks** and **Tailwind CSS**.
  - Implemented an intuitive **admin panel** enabling efficient **task creation**, seamless **assignment to multiple employees**, and **real-time updates**.
  - Implemented secure **user authentication** and robust **role-based access control** to protect sensitive data.
  - Enabled **employees** to conveniently **update the status** of their **assigned tasks** (e.g., **Working**, **Completed**, or **Failed**) in real time, ensuring transparent progress tracking.

- **Blog Platform** 🔗   **Dec. 2024 – Jan. 2025**
  HTML, CSS, JavaScript, React, Tailwind CSS, Appwrite
  - Successfully developed a fully responsive, full-stack **blogging platform** enabling users to seamlessly **write**, **edit**, manage, and securely **publish blog content** with a clean, modern, and intuitive UI.
  - Efficiently integrated robust **Appwrite BaaS** for highly secure **user authentication**, reliable **session handling**, and scalable **document-based database management** with advanced access controls.
  - Implemented a feature-rich, customizable **markdown editor** using **TinyMCE** to enable advanced **rich text formatting**, dynamic **live preview**, and seamless **embedded media support**.

Technical Skills

Programming Languages: JavaScript, C++
Frontend: React.js, Tailwind CSS, HTML, CSS
Backend: Node.js, Express.js, Firebase, Appwrite
Databases: MongoDB, SQL, MariaDB, Redis
Developer Tools: Git/GitHub, VS Code, Google Colab, Kaggle, Linux

Relevant Coursework

○ Data Structures and Algorithms	○ Operating Systems	○ Database Management Systems
○ Object-Oriented Programming	○ Artificial Intelligence	○ Machine Learning

Achievements

- **Meritorious Award for Academic Excellence** for securing distinction throughout all semesters with a cumulative score of **97.21%** in diploma examinations, leading to the attainment of **34th rank across Maharashtra**.

Leadership / Extracurricular

- **Line-Following Robot:** Built and programmed a **line-following robot** using **IR sensors** and **C++**, gaining hands-on experience in **embedded robotics**.

- **Sponsorship Head (Department Committee):** led all **sponsorship activities**, successfully raising over **2.5 lakh** by initiating **outreach campaigns**, negotiating with sponsors, and establishing **long-term partnerships**.

- **Department Head (Enthusia):** Coordinated with department students and managed scheduling for different sports in inter-college competitions, ensuring smooth execution of events. Also led the football team in inter-college tournaments.