

# Ashok Kumar

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## Education

### Bachelor of Technology in Computer Science

Aug 2023 - May 2027 (Expected)

SRM University, Guntur, Andhra Pradesh

*Relevant Coursework:* Data Structures, Algorithms, Object-Oriented Programming (OOP), Database Management Systems, Artificial Intelligence & Machine Learning (AI-ML)

### Intermediate (Grade 12)

Apr 2022 - May 2023

VidyaGyan School, Sitapur, Uttar Pradesh

Score: 91%

### High School (Grade 10)

Apr 2020 - May 2021

VidyaGyan School, Sitapur, Uttar Pradesh

Score: 93.6%

## Technical Skills

- **Programming Languages:** C, C++, Python, JavaScript, HTML/CSS
- **Frameworks & Libraries:** React.js, Node.js, Express.js, Flask
- **Databases:** MongoDB, MySQL
- **Tools & Technologies:** Git, Postman, Render, Socket.IO, RESTful APIs
- **Soft Skills:** Communication, Problem Solving, Team Collaboration

## Projects

### StudyGenie: Chatbot for Learners

May 2025 - June 2025

*Tech Stack:* React.js, Node.js, MongoDB, Google Gemini API, Socket.IO, Tailwind CSS

- Developed a scalable AI-powered chatbot tailored for students, enabling 24/7 personalized doubt resolution and boosting learning efficiency by up to 40%
- Engineered an innovative contextual side chat system with multi-threaded conversation handling, allowing instant follow-ups without disrupting main chat flow and context
- Built real-time infrastructure using Socket.IO, React 18, and advanced state management, supporting parallel AI interactions with <100ms latency
- Automated generation of professionally formatted PDF learning summaries

### TrainBuddy: Connecting Travellers

Jan 2025 - Apr 2025

*Tech Stack:* React, Node.js, Express.js, MongoDB, Socket.IO, React-Native, IRCTC API (Train Search)

- Developed a real-time social platform for train travelers using WebSocket-powered chat and interest-based matching algorithms
- Deployed scalable backend with MongoDB; reduced latency by 25% through query optimization
- Implemented secure user authentication and profile management for 100+ test users

### RunDown: AI Task Manager

Oct 2024 - Dec 2024

*Tech Stack:* Flask, Google Gemini API, Google Calendar/Gmail APIs

- Engineered an AI-driven task manager with natural language processing (NLP) for task queries, improving user productivity by 30%
- Integrated RESTful APIs to automate calendar scheduling and email reminders
- Created responsive UI with accessibility features, supporting multiple device formats

## Experience

### NextTech Lab — Member

Sep 2023 - Present

- Participated in weekly coding challenges and algorithmic problem-solving sessions
- Assisted in mentoring junior members on full-stack development projects

### Edubot Technologies — Intern

May 2025 - Jul 2025

- Learnt Flask backend and React with Typescript
- Worked on a Personal Finance Manager app Finlogix using above tech

## Certifications & Achievements

- **AI ML Internship Certificate**, Yhills, Apr 2025
- **Google Analytics**, Google, June 2025