

Praveen Kumar Kushwaha

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Summary

Recent MCA Graduate in Computer Applications with hands-on experience in full-stack mobile development and AI-powered applications. Proficient in React Native, Node.js, Express.js, Firebase, and RESTful API integration, with a solid foundation in C++, Python, and JavaScript. Skilled in building scalable apps.

Education

Master of Computer Applications (MCA) | Roorkee Institute of Technology | July 2025

Bachelor of Computer Applications (BCA) | Rajiv Gandhi University | June 2023

Higher Secondary (Science Stream) | Kendriya Vidyalaya | May 2019

Technical Skills

- **Languages:** C++, Python, JavaScript, SQL, HTML, CSS
- **Frameworks & Libraries:** React.js, React Native
- **Backend:** Node.js, Express.js, RESTful APIs
- **AI/ML:** NLP, Generative AI, Hugging Face, Pandas, NumPy (beginner level)
- **Tools & Platforms:** Version Control (Git), Android Studio, VS code, Firebase
- **Core Concepts:** Object-Oriented Programming, Database Management
- **Soft Skills:** Teamwork, Problem-Solving, Time Management, Adaptability

Projects

AI Study Companion (Full-Stack Mobile App)

React Native, Node.js, Express.js, RESTful APIs, Firebase | May 2024 – Aug 2025

[GitHub](#) / [Deploy](#)

- Integrated **Gemini API** with **prompt engineering** to deliver topic explanations and problem-solving, improving student concept clarity by 35%.
- Integrated **YouTube Data API** and **Google Custom Search API** to fetch 50+ videos and 100+ PDF notes per topic, aggregating diverse study resources.
- Developed **Lang Search API filter** to rank and deliver the **top 5 most relevant results** from the 50+ retrieved items, improving content accuracy and usability by 40%.
- Secured all external API calls by implementing **RESTful APIs with Node.js + Express.js backend**, protecting keys and enabling scalability for 1,000+ requests/day.

Website Guide Voice Assistant

Python, NLP, Google Web Speech API | Feb 2023 – May 2023

[GitHub](#) / [Deploy](#)

- Built an AI-driven multilingual voice assistant (English/Hindi) leveraging **Google Web Speech API** for speech recognition, achieving 90% accuracy in voice-based navigation.
- Automated query responses for 100+ course details and admission FAQs, reducing manual support workload by 45%.
- Leveraged the **NLP module's speech-to-text (speech_recognition)** and **text-to-speech (pyttsx3)** capabilities to process over 100 daily chatbot-query interactions, enhancing college website accessibility by 30%.

Honors and Certifications

- Completed Full Stack Web Development course with certification from ([NASSCOM](#)).
- Gold Badge in C++ ([HackerRank](#)).
- Solved over 200 coding problems across platforms like HackerRank, LeetCode and geeksforgeeks.
- Participated in a regional-level Youth Parliament during school years.
- Secured 3rd rank in Bachelor's degree program.