

PRINCE KUMAR SINHA

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Education

SRMCEM, Lucknow

Nov 2022 – June 2026

Bachelor of Technology in Computer Science and Engineering

Percentage: 78%

Relevant Coursework

- Data Structures and Algorithms
- Object-Oriented Programming (OOPs)
- Operating Systems
- Database Management Systems
- Computer Networks
- Full Stack Web Development

Technical Skills

Programming Languages: JavaScript (ES6+), TypeScript, C++, Java

Frontend Development: React.js, Next.js, React Native, HTML5, CSS3, Tailwind CSS

Backend Development: Node.js, Express.js, RESTful APIs, JWT Authentication

Databases: MongoDB, PostgreSQL, Neon Database

Developer Tools: Visual Studio Code, Postman, Git & GitHub, Docker, Vercel

Core Competencies: Data Structures & Algorithms, Problem Solving, Debugging, API Integration

Experience

LearnTrail

June 2025 – July 2025

Large Language Model (LLM) Bootcamp Trainee

SRMCEM, Lucknow

- Completed training on Large Language Models (LLMs) with focus on Retrieval-Augmented Generation (RAG) & AI application development.
- Engineered LLM-driven chatbots and resume analysis systems using LangChain and OpenAI APIs, achieving a 25% improvement in contextual response accuracy.
- Built a RAG-based Student Cover Letter Generator with LangChain, boosting personalization efficiency and content relevance by 35% during evaluations.

IBM

September 2024

Data Science Bootcamp Trainee

SRMCEM, Lucknow

- Completed a 10-day intensive training on Python for Data Science, focusing on data cleaning, analysis, and visualization.
- Used Pandas, NumPy, Matplotlib for EDA and predictive modeling, boosting accuracy by 20%.
- Built and evaluated supervised ML models in Python, improving prediction performance by 15%.

Projects

Quick AI Tools: AI SaaS Application | *React.js, TypeScript, Express.js, Neon Database, Google Gemini*

 **GitHub**

- Developed a full-stack, AI SaaS platform with 6 AI features eg: background removal, image generation, and resume analysis, improving processing efficiency by 25%.
- Integrated Clipdrop and Google Gemini APIs to achieve 90% accuracy in advanced AI features.
- Implemented secure authentication and user management using Clerk; deployed scalable backend services with Express.js and Neon Database, reducing response time by 20%.
- Developed reusable UI components in React.js, reducing front-end development time by 15% and improving code maintainability..

CodeFlex: AI Fitness Trainer | *Next.js, Convex Database, Vapi, Google Gemini*

 **GitHub**

- Created AI-driven fitness platform delivering personalized diet and workout plans to 50,000+ users.
- Crafted responsive Next.js frontend with Convex DB, enabling real-time sync, improving UI speed by 25%.
- Integrated Google Gemini for 90% accuracy and Vapi APIs to enable conversational AI for voice-based fitness guidance.

Achievements & Certifications

LeetCode & Coding Ninjas

2024 – Present

- Solved over 400 algorithmic problems across Data Structures, Arrays, Trees, and Linked Lists to strengthen programming expertise.
- LeetCode Profile: leetcode.com/princesinha
- Coding Ninjas Profile: codingninjas.com/codestudio/profile/princesinha

Certifications

- **LLM Bootcamp by LearnTrail** (June–July 2025) — Specialized in Large Language Models, Prompt Engineering, and RAG-based AI development.
- **Data Science Bootcamp by IBM** (September 2024) — Covered Python, Pandas, NumPy, and core Machine Learning workflows.