

# Kartik Singh

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## PROFILE

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I am a motivated software engineer with strong communication and teamwork skills. I have a passion for developing innovative solutions and am eager to contribute to impactful projects. I enjoy tackling complex problems and continuously learning new technologies. I am looking for opportunities to grow in a fast-paced environment where I can apply my skills and collaborate with others to achieve shared goals.

## EDUCATION

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**Vel Tech Rangarajan Dr.Sagunthala RnD Institute of Science and Technology** Avadi, Chennai  
*B. Tech, CSE, Graduated with CGPA 8.0* Aug. 2021 - May 2025

**Kendriya Vidyalaya Sangathan** Avadi, Chennai  
*12th with 81.8 percentage* Apr. 2020 - Mar. 2021


**Kendriya Vidyalaya Sangathan** Avadi, Chennai  
*10th with 77.4 percentage* Apr. 2018 - Mar. 2019

## PROJECTS


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**TechForum - Get Your Tech Problem Sol.** –  | *Python, Flask, HTML, CSS, JavaScript, SQLite* Sept 2023

- Developed a web platform where users can post and find solutions to various tech-related issues, including problems with phones, PCs, and other devices. Users can ask questions, browse answers, and contribute their own solutions.
- User authentication, account and database management using SQLite.
- Real-time interaction for posting questions and answers.
- Organised forum-style layout for easy navigation of discussions.

**JobSage - Smart Recruiting Platform** –  | *HTML, CSS, JavaScript, Firebase DB* October 2024

- Engineered a dynamic recruiting platform, JobSage, enhancing recruitment workflows with real-time job posting, tracking, and interview scheduling.
- Implemented role-based access control for recruiters, job seekers, and admins.
- Integrated Gemini AI for personalized interview question generation.
- Built an admin dashboard to display recruitment metrics for data-driven insights.

**Pulmonary Fibrosis Severity Prediction** –  | *Python, TensorFlow, Keras* March 2024

- Led a machine learning project using Convolutional Neural Networks (CNNs), achieving 90 percent accuracy in predicting pulmonary fibrosis severity.
- Curated and preprocessed 10,000+ CT scan images, enhancing model training quality and validation robustness
- Utilized TensorFlow and Keras frameworks, leveraging GPU acceleration on Google Colab and Kaggle platforms, reducing training time by 40percent.

**Simple Music Player** –  | *HTML, CSS, JavaScript* August 2024

- A Simple Music Player Using JavaScript to Play Audio files with Pause, Resume, Next like functionalities

## TECHNICAL SKILLS

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**Languages :** C, C++, Python, Java

**Web Development :** HTML, CSS, JavaScript, ReactJs

**Developer Tools :** Google Collab Platform, VS Code, Visual Studio, PyCharm, Git/GitHub, Firebase

**Database :** SQL(MySQL), Firebase DB

**Soft Skills :** Communication, Adaptability, Time Management, Leadership, Empathy, Flexibility

**Areas of Interest :** Software Development, Front-end Development

## CERTIFICATES AND ACHIEVEMENTS

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- Infosys Springboard Certification (IoT, Cloud Computing and ML using Python) :** Gained foundational knowledge in Internet of Things, Cloud Computing and machine learning techniques.
- Letter of Recommendation** from Tech Analogy for exemplary performance in DesignScape, an industrial workshop on Graphic Design, Product Design, and UI/UX Design.