

# NIPUN SHARMA

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## EDUCATION

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**B. Tech CSE**, Vellore Institute of Technology (2022 – 2026)

CGPA: 8.6/10

## SKILLS

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**Languages:** Python, C++, HTML/CSS, JavaScript, Solidity, SQL

**Frameworks:** Scikit-Learn, TensorFlow, Keras, React, NextJs, NodeJs, Threejs

**Additional Skills:** MongoDB, Firebase, Git, LLM Fine Tuning and Integration, Leadership, Adaptability, Creativity, Problem-Solving, Teamwork

## Experience

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### Web Developer

**Et Ideas** (June 2024 – Present)

- Designed and executed innovative frontend solutions with React, contributing to a 50% faster development cycle for future feature releases, thereby enabling quicker responses to evolving customer needs and market demands.
- Championed the development and maintenance of web applications using a cutting-edge tech stack, which streamlined internal processes, reducing development time by 40% and enabling quicker feature rollouts for the startup.
- Utilized version control systems like Git for effective project management and collaborative development when needed.
- Directly contributed to 200x revenue growth by optimizing the product for scalability and user adoption.

### AI Research Intern

**KK Tech** (March 2023 – April 2024)

- Actively participated in regular team meetings and brainstorming sessions, providing insights and suggestions that drove the direction of ongoing AI projects in a startup setting.
- Collaborated with the Team to Conduct performance evaluations and optimizations for AI models, achieving a 20% reduction in computational costs and helping the startup manage its resources effectively.
- Implemented rigorous testing and debugging, reducing system errors by 40%.

## Projects

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- **Emotion Detection and Sentiment Analysis from Facial Expressions using CNN:**
  - Successfully built a real-time emotion detection system capable of accurately identifying and analyzing facial expressions from live video feeds using CNN.
  - Authored extensive testing and validation of the model using diverse datasets, achieving an accuracy rate of over 90% in emotion recognition.
- **Mood Based Music Generation using Generative AI Model:**
  - Developed an AI-powered system to generate music based on user mood, utilizing generative models LLMs to create personalized music tracks.
  - Achieved significant improvements in the quality and emotional relevance of the generated music through iterative model training and optimization, reducing error rates by 25%.
- **Bimodal Movie Recommendation System**
  - Designed and implemented a bimodal recommendation system that uses both collaborative filtering and content-based filtering techniques, resulting in a 20% improvement in recommendation accuracy.
  - Led extensive A/B testing to refine the recommendation algorithms, improving user satisfaction by 35% based on feedback.
- **Social Media Web App using MERN Stack:**
  - Developed the front-end using React, creating a dynamic and responsive user interface that facilitated easy event registration and interaction.
  - Added features for event registration, and user interactions, increasing user participation by 45%.