

Karri Rajesh Kumar

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Career Objective

To build smart and complete web applications by combining full stack web development with machine learning, making technology more useful and intelligent.

Education

GMR Institute of Technology | Bachelor of Technology Rajam, AP | 2022 - Present

- Cumulative GPA: 9.902 (up to 5th semester)

Sri Chaitanya Junior College | Intermediate (Class XII) Visakhapatnam, AP | 2020-2022

- Cumulative Score: 975/1000

Holy Cross School | SSC (Class X) Seethanagaram, AP | 2019-2020

- Score: 588/600

Experience

Teaching Assistant

NXT Wave CCBP 4.0 Technologies | Present

- Supported 1000+ learners by resolving technical and conceptual queries across Python programming modules.
- Mentored students in debugging, best practices, and strategies for improving learner performance.

Community Impact Project – Volunteer Educator

Government School Initiative | [June, 2024 to July, 2024]

- Led a 4-week on-ground program teaching 100+ school students essential communication skills and foundational knowledge in AI, programming and digital literacy.
- Developed simple and engaging content to help students explore new technologies and ignite their curiosity.

Skills

Technical Skills

- **Programming Languages:** Python, C, C++, Java
- **Web Development:** HTML, CSS, JavaScript, Bootstrap, Node.js, React.js
- **Databases:** MySQL, SQLite3
- **Tools and Technologies:** Git, GitHub, Vercel

Projects

Personal Project – React Router Blog Page

Tech Stack: HTML, CSS, JavaScript, React

- Developed a multi-page blog app with client-side routing using React Router.
- Used reusable components for Home, About, and Contact pages.
- Designed a responsive UI with a fixed header layout.

Vision Sketch

Tech Stack: HTML, CSS, JavaScript, React, Gemini API

- Built a web app that generates image captions from user sketches using Gemini API.
- Integrated canvas drawing and real-time text generation with React.
- Designed a smooth, interactive interface for sketch input and caption output.
- Deployed on:
 - **Vercel:** <https://vision-sketch.vercel.app/>

Card Memory Matching Game

Tech Stack: HTML, CSS, JavaScript

- Built a memory game with a countdown timer that automatically stops the game when time runs out.
- Implemented card flip animations and match-checking functionality.
- Deployed on:
 - **GitHub Pages:** <https://karrirajeshkumar.github.io/Card-Matching-Game/>

Student Performance Predictor

Tech Stack: HTML, CSS, JavaScript, Python, Machine Learning, Pandas, NumPy, Scikit-learn, Flask

- Developed a machine learning model to predict student performance based on features like attendance, study hours, and previous grades.
- Used regression algorithms to predict exam outcomes and identify key factors affecting performance.
- Analysed and visualized data to enhance the accuracy of the model and provide actionable insights.

Certificates

- **HTML, CSS, Bootstrap, JS** (NXT Wave | August 2024)
- **Intro to Databases (MySQL, SQLite3)** (NXT Wave | October 2024)
- **Git and GitHub Essentials** (IBM | February 2025)
- **Intro to Generative AI** (Google Cloud | February 2025)

Achievements

- **Merit Scholarship Recipient, GMR Institute of Technology** – Awarded for outstanding academic performance and top-ranking results.
- **Research Publication** – "*Enhancing Math Reasoning Using LLMs*", published in IRJMETS Journal, focusing on leveraging Large Language Models to strengthen mathematical problem-solving.
- **Problem-Solving Excellence** – Solved 140+ coding challenges on LeetCode, demonstrating strong algorithmic thinking and proficiency in data structures.
- **NXT Wave Consistency Badge** – Earned a badge for maintaining consistent learning over 250+ days, showcasing dedication and commitment to continuous improvement.