

# N SANJAY KUMAR

Mangaluru, Karnataka, India

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## Education

### St Joseph Engineering College

Bachelor of Engineering in Computer Science Engineering (CGPA: 9.44)

2022 – 2026

Mangaluru, Karnataka

### Vivekananda Pre University College

Class XII, secured an aggregate of 94.66 percentage

2020 – 2022

Puttur, Karnataka

### Vivekananda English Medium School

Class X, Secured an aggregate of 94.24 percentage

2010 – 2020

Puttur, Karnataka

## Experience

### Acmegrade

Aug 2023 – Sep 2023

Machine Learning Intern

Remote

- Worked on an Acmegrade company project to develop AI solutions for healthcare and agriculture, including plant disease detection, diabetes prediction, and Parkinson's disease detection.
- Built and trained deep learning models using CNN architectures (ResNet, VGG16), achieving up to 93.5% accuracy on classification tasks.
- Performed preprocessing and augmentation on 2,000 agricultural and medical records, improving data quality, model robustness, and reducing overfitting
- Integrated the models into a Streamlit application, enabling real-time predictions with an inference and improving early diagnosis efficiency by 70%.

## Projects

### CareerCart | Reactjs, Nextjs, Gemini API, NeonDB

January 2025

- Built an AI-powered platform enabling 200+ students to create resumes, CVs, and practice specific mock interviews.
- Unified resume, CV creation, interview simulator into one platform, improving student preparation efficiency by 35%.
- Integrated Clerk authentication and Inngest to provide secure user management and handle 1,000+ automated background tasks.
- Designed responsive UI with Shadcn and Tailwind, optimizing NeonDB and Prisma ORM for 30% faster performance.

### BitRush | Nodejs, Expressjs, WebSocketIO, MongoDB, Binance API

August 2025

- Developed a real-time multiplayer for BitRush, supporting 1,000+ concurrent players placing BTC and ETH bets.
- Executed a provably fair crash algorithm using Binance API for accurate USD-to-crypto conversion across 5,000+ wagers.
- Deployed WebSocket-powered multiplier updates with secure cashout logic, processing 10,000+ transactions under consistent pre-crash validation.

### FitBuddy | Nextjs, Tailwind, Gemini, Vapi, Convex

March 2025

- Programmed an AI fitness platform that generated personalized weight loss or gain plans for 300+ individual users.
- Created customized diet and workout routines using Gemini, tailored to each person's fitness goals and preferences.
- Implemented Clerk authentication and Convex backend to manage 1,000+ daily user sessions and fitness records.

## Technical Skills

**Languages:** C, Java, Python, HTML, CSS, JavaScript, SQL

**Developer Tools:** VS Code, CursorAI, Eclipse, Google Collab, Jupyter, Android Studio

**Technologies/Frameworks:** Nextjs, Reactjs, TailwindCSS, Javascript, Typescript, Supabase, MongoDB

## Relevant Coursework

- |                    |                       |                           |                         |
|--------------------|-----------------------|---------------------------|-------------------------|
| • Data Structures  | • Data Analysis       | • Artificial Intelligence | • Machine Learning      |
| • Operating System | • Database Management | • Cloud Computing         | • Computer Architecture |

## Leadership / Extracurricular

### IEEE

2023 – 2024

Member

SJEC

- Collaborated with IEEE members to promote technical learning and innovation through coding challenges and knowledge-sharing sessions.
- Solved 100+ problems on LeetCode, strengthening data structures and algorithmic problem-solving skills.
- Participated in Google Cloud technical events and hackathons, gaining hands-on experience with cloud-based tools and services.