

# Krish Kumar

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## Summary

Dedicated and innovative Computer Science & Engineering B.Tech + M.Tech student at Central University of Jharkhand, with hands-on experience in React.js, Python/Flask, and Machine Learning/Computer Vision pipelines. Designed a CNN-BiLSTM OCR system with 96%+ accuracy and developed high-impact web platforms—cutting server response times by 40%, increasing user retention by 25%, and handling 120+ live event registrations.

## Education

### Central University of Jharkhand

B.Tech & M.Tech in Computer Science and Engineering

July 2022 – Present

CGPA: 8.15

### DAV Public School Bokaro Sec-4

Science(PCM) with CS - CBSE

June-2022

82%

### St. Francis School B.Deoghar

All Subject - ICSE

June 2020

85.2%

## Technical Skills

Python, Java, JavaScript, SQL, ReactJS, Next.js, Flask, Computer Vision, TensorFlow, Machine Learning, Deep Learning, MongoDB, Firebase Real-time Database, HTML, Tailwind CSS, Firebase Authentication, Firebase Storage, Firebase Hosting, DSA, OOPs, VS Code, GitHub, Postman, Git.

## Projects

### Cursive Handwritten Word Recognition

September 2024 - January 2025

OCR System Using CNN and Bi-LSTM with Sparse categorical cross-entropy Loss

- Implemented a CNN-based OCR model with 96%+ accuracy, leveraging TensorFlow for word character recognition.

### Heart Disease Prediction Web App(Live Demo)

March 2025 - April 2025

Machine Learning-Based Risk Assessment using Streamlit and Scikit-Learn

- Developed an interactive web application for heart disease risk prediction using Decision Tree, Logistic Regression, Random Forest, and SVM models.
- Integrated single and bulk patient data prediction features, achieving real-time classification with probability scores.
- Deployed the app seamlessly on Hugging Face Spaces for public access and evaluation.

### Algo Dev – Event Management System (Live Demo)

January 2025 – February 2024

ReactJS & Firebase

- Designed a live event platform with React.js and Firebase for real-time data updates.
- Managed user registration and participation with streamlined workflows and automated notifications.
- Achieved **120+ registrations** and increased user satisfaction through efficient interface design.

### Quiz Master (Live Demo)

February 2025 - March 2025

Python (Flask) & MySQL

- Designed a quiz system for multiple users to take quizzes based on topics and chapters.
- Introduced an admin panel to handle quizzes and users effectively.
- Improved summary reports using pie charts to visualize data more effectively.
- Developed and designed RESTful APIs with Flask for smooth functionality.

### Code Crafters Programming Club (CcpC) (Live Demo)

June 2023 - Present

Programming Club Website

- Developed the entire website using **ReactJS** for frontend and **Firebase** for backend services and hosting.
- Implemented authentication, database management, and real-time updates using **Firebase Authentication** and **Firestore**.
- Optimized website performance and improved user engagement by **30%** through responsive design and event tracking.

## Achievements

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### **Hackathon – IIC Innovation Challenge 2023, (State-Level)**

*Central University of Jharkhand*

- Contributed as a team member to secure the 4th position.

## Leadership Experience

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### **Founding Member & Vice-President, Code Crafters Programming Club**

**March 2023 – Present**

*Central University of Jharkhand*

- Led a team of 10+ members on programming projects, increasing participation by 40%.
- Mentored and guided 4 juniors, leading them to complete 2 cross-functional projects within 3 months using Agile methodologies.

## Certifications

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- **Machine Learning** – Coursera
- **Programming in Java** – NPTEL
- **AI/ML for Geodata Analysis** – IIRS, Dheradhoon