

# KUMAR CHAUDHARY

TamilNadu, Coimbatore - 641001

+91-7054080803

chaudharykumar228@gmail.com

linkedin.com/in/kumar\_chaudhary-434050252

github.com/kumarchy

## ABOUT ME

I am a passionate full-stack development and AI enthusiast, skilled in building responsive web applications using frontend (HTML, CSS, React.js) and backend (Node.js, Express.js, MongoDB) technologies. Currently pursuing a B.Tech in AI and Data Science, I've also worked on machine learning and deep learning projects. With hands-on experience from internships and diverse projects, I'm always eager to innovate and grow in the fields of software development and AI.

## PROJECTS

### Full-Stack Projects

**Food-Del** | React.js, Bootstrap, Node.js, Express.js, MongoDB

September 2024

- Developed a full-stack food delivery e-commerce app using the MERN stack for seamless performance.
- Designed an intuitive, responsive UI using React.js and Bootstrap, ensuring an engaging user experience.
- Developed efficient backend functionalities with Node.js and Express.js for smooth app operation.
- Implemented MongoDB for secure data storage and streamlined retrieval across the platform.
- Integrated JWT tokenization for secure authentication, with middleware enhancing app reliability.

**Blogger** | Next.js, Tailwind CSS, MongoDB

October 2024

- Developed a full-stack blogging platform leveraging Next.js for robust, seamless rendering.
- Enabled both server-side and client-side rendering for optimal performance across devices.
- Utilized Tailwind CSS for a clean, responsive layout that enhances user engagement.
- Built reusable, modular components for a streamlined and maintainable development process.
- Implemented MongoDB for secure data storage and streamlined retrieval across the platform.

**Smart Attendance System** | React.js, Node.js, Express, Python, OpenCV, MongoDB

October 2024

- Developed a full-stack attendance application with automated, real-time face recognition capabilities.
- Built a responsive interface with React.js, providing an intuitive user experience for seamless interaction.
- Created robust backend functionality with Node.js and Express.js, ensuring reliable data processing.
- Used the Node.js spawn module to integrate Python scripts for optimized performance in real-time processing.
- Leveraged OpenCV and dlib's ResNet model to enable precise, high-accuracy face recognition in real time.
- Employed MongoDB for secure data storage, supporting efficient data retrieval for attendance records.
- Automated processes across technologies to ensure a fully streamlined attendance management system.

### Machine Learning Projects

**Movie Recommender System** | Python

April 2023

- Created a content-based movie recommender system, leveraging Python for efficient predictions.
- Implemented TF-IDF vectorization to encode movie features, capturing important details effectively.
- Calculated similarity scores to find and recommend movies aligned with prior user selections.
- Used a Kaggle movie dataset containing features like genre, keywords, and plot for accurate predictions.
- Created an interactive web app with Streamlit for a user-friendly, responsive recommendation experience.

**Sentiment Analysis** | Python

May 2023

- Created a sentiment analysis tool with Support Vector Machine (SVM) for accurate text classification.
- Used SVM for effective classification, improving accuracy in detecting positive and negative sentiments.
- Employed the NLTK library for tokenization, stop-word removal, and feature extraction from text data.
- Used a movie review dataset from Kaggle to train and test the model for diverse sentiment analysis.
- Developed a user-friendly interface with Streamlit, enabling efficient interaction with the model.

### Deep Learning Projects

**Plant Disease Classification** | Python

July 2023

- Built a CNN model with Keras, enabling accurate classification of plant leaf diseases.
- Used a Kaggle potato leaf dataset for training and testing, covering various disease types.
- Improved model accuracy through iterative trial and error, achieving robust classification performance.
- Evaluated the model to ensure high accuracy, making it reliable for practical disease detection.

## WORK EXPERIENCE

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### Yanne Technologies

Dec 18, 2023 - Jan 02, 2024

#### Data Science Intern

- Implemented deep learning techniques using OpenCV for a Digital Wellbeing Tracker.
- Collaborated with team members to apply deep learning concepts in real-time projects.
- Successfully completed a project focused on digital wellbeing.

### BALMIKI INTERNATIONAL SCHOOL

JULY 10, 2024 - AUG 14, 2024

#### Web Development Intern

- Developed a full-stack portal using React.js, Node.js, and MongoDB to enhance accessibility for students and parents.
- Strengthened data security with JWT authentication, safeguarding user credentials and sensitive information.
- Built RESTful APIs for CRUD operations, optimizing backend functionality and improving data management.
- Utilized Postman for API testing, ensuring reliable communication between the frontend and backend.
- Leveraged MongoDB Atlas for efficient data storage, reducing query response times by 25%.
- Deployed the project on Render, maintaining consistent uptime for over 500 users

## SKILLS

**Programming languages** : C, Python, JAVA

**Frontend** : CSS, HTML, Bootstrap, JavaScript, ReactJS, Tailwind CSS, Next.js

**Backend** : Node.js, Express.js, Next.js

**Machine Learning** : Scikit-learn

**Deep Learning** : Keras, OpenCV

**Data Analysis** : Pandas, NumPy, Matplotlib, Seaborn

**Database** : MySQL, MongoDB

**Version Control** : git, github

**Tools** : Vs Code, Pycharm, Jupyter Notebook, Sublime Text

## EDUCATION

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### +2 Level Schooling

#### Kailali Multiple Campus

2019 - 2020

Dhangadhi, Kailali, Nepal

- Memorable school life with many unforgettable moments.

### B Tech in Artificial Intelligence and Data Science

#### KPR Institute of Engineering and Technology

2022 - 2026

TamilNadu, Coimbatore

- Exploring and learning emerging technologies daily.

## LANGUAGES

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Fluent in: Nepali, Hindi, English