



# Ravi Kumar

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 [My GitHub Profile](#)    [My Portfolio Website](#)

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Versatile software professional with 2+ years of experience building dynamic web applications and hands-on expertise in machine learning and data analysis. Proficient in Python, JavaScript, SQL and modern frameworks like Flask and React. Passionate about solving real-world problems through clean code, analytical thinking, and data-driven decisions. Actively applying both web development and data science skills to build impactful, user-focused solutions. A fast learner with a collaborative mindset and strong growth orientation.

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## Educational Background

**LNCT University**  
Bhopal, MP, India  
MCA in Data Science & Visualization  
2022  
Marks Obtained - CGPA 8.92

**TMB University**  
Bhagalpur, Bihar, India  
B.Sc. in Maths  
2018  
Marks Obtained - 51%

**Jawahar Navodaya Vidyalaya**  
Sahibganj, Jharkhand, India  
Intermediate  
2014  
Marks Obtained - 60%

**Jawahar Navodaya Vidyalaya**  
Sahibganj, Jharkhand, India  
Matriculation  
2011  
Marks Obtained - CGPA 8.2

## Languages & Hobbies

- English & Hindi
- Dancing

## Work Experience

**Junior Project Developer**  
IT DECODER  
*December 2022 to February 2025*

- Developed responsive web applications using HTML, CSS, JavaScript and backend services with Python and Flask, integrating REST APIs and managing data flow.
- Built and maintained embedded systems and IoT solutions using ESP32 microcontroller for real-time data acquisition and communication.
- Implemented web scraping tools for automated data collection and collaborated with teams to enhance UI/UX and optimize application performance.

## Work Projects

**SaaS-Based Resume Builder Web Application**  
Tech Stacks - *HTML, CSS, Javascript, Tailwind CSS, Flask*

- Built a responsive web app that lets users create and download professional resumes using dynamic, customizable templates.
- Integrated frontend and backend with user authentication, secure data storage and real-time preview.

**Custom Web Scraping and Text-to-Speech Web Application**

Tech Stacks - *HTML, CSS, JavaScript, Flask, Mechanical Soup, gTTS*

- Developed a web app that scrapes website content and converts it into speech, improving content accessibility.
- Implemented smooth integration between text extraction and audio playback with user-friendly UI.

**Real-Time GPS Tracking & Web Dashboard**

Tech Stacks - *ESP32, GPS Module, Firebase, Flask, JavaScript, Mapbox API*

- Developed a GPS tracking system to display live location data on a custom web dashboard with direction and distance info.
- Implemented full-stack data handling, real-time visualization and backup to Google Sheets for reliability.

## Skills

### Programming Languages:

- Python
- JavaScript
- R

### Frontend Development:

- HTML
- CSS
- JavaScript
- Bootstrap
- Tailwind CSS
- React.js & Next.js
- Framer

### Backend Web Frameworks:

- Flask
- Django
- Streamlit

### Web Scraping:

- BeautifulSoup
- MechanicalSoup

### Databases & Cloud Storage:

- MySQL
- SQLite
- Firebase Realtime DB

### Data Analysis & Visualization:

- Numpy
- Pandas
- Matplotlib
- Seaborn

### ML, DL & NLP:

- Scikit-learn
- Pytorch
- NLTK
- Feature Engineering
- Model Training & Evaluation

### Embedded Systems & IoT:

- ESP32
- Arduino
- C++ (Embedded Programming)
- MQTT Protocol
- GPS Module
- OLED Display,
- Relays & Sensors

## Academic Projects

### Diabetes Patient Prediction

Tech Stacks - *Numpy, Pandas, Matplotlib, Seaborn, scikit-learn*

- Developed a machine learning model to predict diabetes risk based on patient health data, applying data preprocessing, feature analysis, and classification techniques.

### Loan Eligibility Prediction

Tech Stacks - *Numpy, Pandas, Matplotlib, Seaborn, scikit-learn*

- Created a classification model to assess home loan eligibility using applicant data, focusing on data cleaning, transformation and model development.

### SmartWork

Tech Stacks - *HTML, CSS, JavaScript, Django, MySQL*

- Collaborated in a team of four to build a full-stack employee management system, where I led the development of task tracking features.

## Independent Projects

### Tuberculosis Detection using CNN on Chest X-Rays

Tech Stacks - *Numpy, Matplotlib, Seaborn, Scikit-learn, Pytorch*

[View Code](#) [DataCamp Link](#)

### Classification Model Builder

Tech Stacks - *Numpy, Pandas, Scikit-learn, Streamlit*

[Live Demo](#)

### News Classifier App

Tech Stacks - *HTML, Tailwind CSS, React.js, Flask, NLTK, Scikit-learn*

[Live Demo](#)

### My 30DaysOfReact Learning Series

Tech Stacks - HTML, CSS, Tailwind CSS, React.js, Framer

[View Code](#)