



Ravi Kumar

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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.

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](#)