

# Ganesh Bharatwaj

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## Summary

Highly motivated and detail-oriented software developer with a strong foundation in full-stack web development, backend engineering, and data analytics. Skilled in Python, Flask, Vue 3, SQL, and machine learning frameworks. Experienced in building scalable web applications, data pipelines, and predictive models. Strong communication and mentoring abilities demonstrated through academic teaching roles. Seeking opportunities to contribute to innovative software solutions in fast-paced development teams.

## Profiles

GitHub

[code23data](#)

LinkedIn

[ganesh-bharatwaj](#)

## Work Experience

Unified Mentor Private Limited

Gurugram, India (Remote)

Web Development Intern

November 2025 - Present

Technologies: HTML, CSS, JavaScript, React, Vue, WebSockets

- Developing a responsive blog website using HTML, CSS, and JavaScript with dynamic posts, a comment section, and navigation. Optimizing for mobile devices with CSS media queries.
- Designing a real-time chat app with Vanilla JavaScript. Implementing WebSockets for real-time messaging.
- Building a personal portfolio using HTML, CSS, and JavaScript. Exploring React and Vue.js for dynamic content and improved interactivity.
- Developing a multiplayer Tic-Tac-Toe game with Vanilla JavaScript for game logic and UI. Exploring React for future UI improvements.

InLighnX Global Pvt Ltd (InLighn Tech)

Bangalore, India (Remote)

Data Science Intern

August 2025 - November 2025

Technologies: Python, SQL, Pandas, TensorFlow, scikit-learn, XGBoost

- Developed AI/ML solutions across various domains, including finance, healthcare, and automation, using Python and libraries like scikit-learn and TensorFlow.
- Built and deployed predictive models for applications such as Bitcoin price prediction, breast cancer detection, heart disease prognosis, and Parkinson's detection, utilizing algorithms like Logistic Regression, Random Forest, XGBoost, and LSTM.
- Engineered a Python-based voice-activated AI chatbot leveraging speech recognition, NLP, and automation to enable hands-free interaction.
- Applied data preprocessing, SMOTE balancing, model tuning, and performance evaluation to enhance model accuracy and generalization.
- Designed and optimized SQL databases, improving data querying efficiency and providing actionable business insights through effective database management and analysis.

Metro Brands Limited

Mumbai, India

Data Analyst Intern

February 2025 - July 2025

Technologies: Python, PySpark, ClickHouse, SQL Server, AWS Glue, Power BI, Excel

- Built scalable ETL pipelines using PySpark and AWS Glue, improving processing efficiency in distributed environments.
- Automated data transfers between ClickHouse and SQL Server, reducing manual workload and increasing reliability.
- Developed Python scripts for backend data support and integrated business logic into analytics systems.
- Analyzed business dashboards and performance reports using Power BI and Excel to support strategic decisions.

IIT Madras

Chennai, India

Teaching Assistant for C Programming Lab

December 2023 - January 2024

- Mentored students on core C programming topics such as memory management, algorithms, and pointer manipulation.
- Reviewed and debugged student code, offering optimization and performance tips.
- Supported lab sessions focused on dynamic memory, file handling, and data structures.

IIT Madras

Chennai, India

Teaching Assistant for Mathematics for Data Science - 1

May 2023 - August 2023

- Led live tutorial sessions on calculus and algebra for 100+ students.
- Provided responsive academic support through forums and messaging platforms.
- Worked closely with faculty to enhance course content and clarity.

## Education

Indian Institute of Technology Madras

Bachelor of Science (BS)

Data Science and Applications

January 2021 - September 2025

Data Structures & Algorithms, DBMS, Modern Application Development, Unix System Tools, Statistics, Machine Learning, Deep Learning

Birla Institute of Technology and Science, Pilani

Bachelor of Engineering (BE)

Chemical Engineering

August 2018 - May 2022

Completed foundational courses in chemical processes, materials science, process design principles, thermodynamics and humanities electives.

## Skills

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### Programming Languages

Python, SQL, C, JavaScript, HTML/CSS

### Frameworks & Libraries

Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, Flask, Vue.js

### Databases & ORM

SQL Server, PostgreSQL, SQLAlchemy

## Projects

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### Ticket Show Booking Application

Tech Stack: Flask, HTML, CSS, Bootstrap, SQLite

- Developed a CRUD-based web app for booking tickets, featuring real-time seat tracking and efficient data handling using SQLite.
- Created intuitive user interfaces with Bootstrap and ensured a seamless booking experience.
- Applied MVC architecture for maintainable, modular code and scalable system design.

<https://github.com/code23data/TicketBooking>

### Taxi Fare Prediction

Tech Stack: Pandas, Sci-kit Learn, Seaborn.

- Built and evaluated regression models to predict taxi fare amounts based on trip data.
- Applied data preprocessing, feature engineering, and model evaluation using Scikit-Learn.

<https://github.com/code23data/Taxi-Fare-Prediction>

### Library Management System Application

Tech Stack: Vue 3, Flask, Celery, Redis, SQLite

- Developed a full-stack system with CRUD operations for books and sections, and user book issuing logic with limits and due-date enforcement.
- Integrated automated notifications (daily reading prompts, monthly reports) using Celery and Redis task queues.
- Implemented access control and rule-based logic for book lending, enhancing system usability and data consistency.

<https://github.com/code23data/App-Dev-2-Project>

## Interests

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Chess, Reading, Music