

# Ajay Bind

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## EDUCATION

- **National Institute of Technology Hamirpur** Aug 2025 - May 2027  
Master of Technology in **Computer Science & Engineering**
- **National Institute of Technology Warangal** Dec 2021 - May 2025  
Bachelor's of Technology in Mechanical Engineering

## SKILLS

**Programming Languages:** C++, C, Python, HTML, CSS, JavaScript, TypeScript, SQL

**Frameworks & Libraries:** React.js, Next.js, Node.js, Express, Tailwind CSS

**Cloud & Databases:** MongoDB, PostgreSQL

**Data Science / Machine Learning:** Numpy, Pandas, Matplotlib, Scikit-learn, Keras, FastAPI

**Tools & Practices:** Git, GitHub, Docker, Postman, Agile, Debugging, Version Control

**Software Engineering Concepts:** Data Structures & Algorithms, Object-Oriented Programming (OOPs), Database Management System, Operating Systems, Computer Networks

## PROJECTS

- **Interactive Language Learning Platform** | [Live Demo](#) | [GitHub](#)
  - Built a full-stack application using **Next.js, React, and PostgreSQL**, featuring an engaging UI, progress tracking, and gamification for thousands of active users.
  - Integrated secure **authentication and payment processing** with **Stripe and Clerk**, ensuring seamless transactions and data protection.
  - Developed a scalable, modular component system with **Shadcn UI** and **React Admin** for managing learning paths in 5 languages using **RESTful APIs**.
- **White Board** | [Live Demo](#) | [Github](#)
  - Created a real-time, collaborative whiteboard application using **Convex**, can support up to 5 users per organization and scalable to thousands of monthly active users.
  - Engineered advanced features like layering, undo/redo, and a customizable toolbar (text, shapes, sticky notes), enhancing **collaboration and state management**.
  - Crafted a responsive, cross-browser UI using **Tailwind CSS** and **Shadcn/UI**, ensuring consistent functionality across devices.
  - Optimized platform scalability for thousands of concurrent users, can support up to 100 active organizations monthly, with CI/CD pipelines for efficient and seamless updates.
- **Vehicle CO<sub>2</sub> Emission Predictor** | [Live Demo](#) | [Github](#)
  - Built an end-to-end machine learning **regression pipeline** using **python** and **scikit-learn**, including **data preprocessing**, categorical encoding, feature scaling, model training, and evaluation (**RMSE/MAE**).
  - Packaged preprocessing and model logic into a single serialized pipeline using Joblib ensuring reproducible and production-ready inference.
  - Developed an **interactive Streamlit web application** that takes vehicle specifications and fuel-consumption inputs to generate real-time **CO<sub>2</sub> emission predictions** with a clean, minimal UI.

## ACHIEVEMENTS

- **Codeforces: Specialist (Max Rating: 1501)**
- **LeetCode: Knight Level (Max 1859 Rating)**
- **CodeChef: 3★ Coder (Max Rating: 1667)**
- **GATE CSE Qualified in 2025**

## CERTIFICATIONS

- Goldman Sachs Software Engineering Virtual Experience Program on Forage
- Career Essentials in Software Development by *Microsoft and LinkedIn*
- Career Essentials in Generative AI by *Microsoft and LinkedIn*