# DHRUV PATEL

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## PROFESSIONAL EXPERIENCE

**(Backend) Node.js intern**                                                                      JAN 2024 - APR 2024

Toshal Infotech - Surat, Gujrat

- Engineered and managed scalable server-side applications utilizing the Node.js and Express.js frameworks efficiently.
- Collaborated with cross-functional teams to design and implement RESTful APIs, enhancing communication between frontend and backend systems.
- Efficiently utilized NPM packages to integrate third-party functionalities and optimize them as well.

## EDUCATION

**B.E. in Computer Science and Engineering**, **8.29 CGPA**                                  EXPECTED, MAY2024

R.N.G. Patel Institute of Technology, Bardoli

**Diploma in Computer Engineering**, **8.90 CGPA**                                                         2021

N.G. Patel Polytechnic, Bardoli

## PROJECTS

**Language Learning Application (MERN stack):**

- I meticulously devised an ingenious tool that intricately integrates cutting-edge technology, meticulously designed to cultivate language proficiency through immersive and interactive exercises, thereby fostering a dynamic and engaging environment for accelerated linguistic acquisition.
- Incorporated AI algorithms for adaptive learning and real-time progress tracking, notably elevating user experience.
- It is a platform for immersive learning through lifelike conversations and interactive encounters.
- The administrator can contribute vocabulary, devise lessons for authentic real-world scenarios and manage them.

**Collaborative Code Editor (MERN stack):**

- Collaborative code editor fosters concurrent coding on shared files, significantly enhancing productivity and streamlining collaborative workflows for optimal efficiency.
- The Skulpt, WebSocket, and CodeMirror libraries were seamlessly integrated to architect this innovative platform
- Real-time collaboration features ensure simultaneous code editing without conflicts, promoting efficient workflow.
- Users engage in real-time collaboration, fostering teamwork and accelerating project completion timelines resulting into productivity and time to market by 15%.

**House Price Prediction (HTML, CSS, JavaScript, Python):**

- Engineered a highly accurate house price prediction tool, utilizing regression ML models to achieve an impressive 80% - 90% accuracy rate, ensuring robust performance in real-world scenarios.
- Enhanced precision and utility by predicting infrastructure prices based on various parameters such as BHK configurations and location specifics, providing invaluable insights for informed decision-making.
- Utilized regression ML models for precise house price predictions, resulting into maximized stakeholder returns.
- Aim: continuously improve accuracy to 100% through the integration of additional data and advanced methodologies

## SKILLS AND TOOLS

**Languages**:                     C, C++, Java, Python
**Web Development**:          HTML, CSS, JavaScript, Tailwind CSS, React JS, Bootstrap
**Backend and Database**: Node.js, Express.js, MongoDB, SQL
**Tools and Others**:          Power BI, VS Code, Git, GitHub

## ACHIEVEMENTS & CERTIFICATES

- Achieved second rank in college level web development competition in which approximately 30 teams participated.
- Leadership:  coordinated an event named 5s which promoted workplace organization, safety as well as efficiency