

# Devarapu Akhil

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## SUMMARY

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Full-Stack Developer skilled in the MERN stack and backend development, with experience in building responsive and scalable web applications. Proficient in RESTful API design, integrating AI tools like n8n and OpenAI, and developing clean, modular architectures. Passionate about solving real-world problems through technology and continuously expanding technical knowledge in areas like cloud, AI/ML, and modern backend frameworks.

## WORK EXPERIENCE

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### Software Developer and Instructor

March 2025 - Present

Driving web development projects using the MERN stack while mentoring aspiring developers in full-stack technologies and emerging Generative AI tools. Responsible for designing backend architectures, integrating APIs, and delivering high-quality code.

## PROJECTS

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### Traffic Sign Detection

[GitHub](#)

Developed a deep learning system using Convolutional Neural Networks (CNNs) to detect and classify traffic signs from road images, enabling automation in driver assistance and autonomous vehicles. Implemented in Jupyter Notebook with TensorFlow and Keras, ensuring high accuracy across diverse datasets under varying lighting and weather conditions.

### AI Personal Lawyer Agent with n8n

[GitHub](#)

Engineered an AI-powered legal assistant using n8n workflows and OpenAI APIs. Built capabilities to upload legal documents, classify document types such as contracts or FIRs, extract critical text data, and deliver intelligent recommendations. Streamlined legal workflows and reduced manual analysis time for professionals.

### Hotel Management Backend

[GitHub](#)

Developed a comprehensive backend solution for managing hotel operations, covering room availability, booking systems, inventory control, and guest data management. Built RESTful APIs with Node.js and Express.js and used SQLite for reliable and efficient storage. Designed a scalable and modular architecture to enable seamless frontend integration.

### Real Estate Platform Backend

[GitHub](#)

Designed and implemented backend services for a real estate platform, supporting property listings, seller dashboards, user inquiries, price trends, and property comparisons. Leveraged Node.js, Express.js, and SQLite in a modular MVC architecture. Focused on performance optimization, secure data handling, and scalable code organization.

### BigBasket - Online Grocery Shopping Backend

[GitHub](#)

Built a backend system for an online grocery shopping platform, managing product catalogs, categories, user authentication, and order processing. Developed RESTful APIs with Node.js and Express.js and implemented data storage using SQLite. Ensured high data integrity and smooth integration with future frontend applications.

## PUBLICATIONS

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### Predicting Salary of an Employee using ML

April 2024

- Developed a machine learning-based application to predict fair and competitive salaries for newly hired employees.
- Applied statistical methods and hypothesis testing to evaluate model accuracy and reliability.
- Implemented and compared multiple regression models including Linear Regression, KNN, Decision Trees, and ensemble techniques like Bagging, Boosting, and Random Forest.
- Identified the most effective model based on performance metrics for accurate salary prediction.
- Built a user-friendly Streamlit interface for easy access by HR professionals and job seekers.
- **Drive Link:** [View Document](#)

## EDUCATION

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**Bachelor of Technology (B.Tech), Information Technology** 2020 – 2024

Vasireddy Venkatadri Institute of Technology, India

**12th Board of Intermediate**

2018 – 2020

Sri Chaitanya Junior College, India

## SKILLS

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**Languages:** JavaScript, Python, Java, C++

**Web Technologies:** HTML, CSS, React.js, Node.js, Express.js

**Databases:** MongoDB, MySQL, SQLite

**Tools:** Git, GitHub, Postman, VS Code, Jupyter, n8n

**Concepts:** REST APIs, JWT, MVC, Deep Learning (CNN), OpenAI APIs

**Other Skills:** MERN stack, Web Development, Database Management, Software Development, Version Control, Communication Skills, Team Management, AI/ML fundamentals, Blockchain, Cloud Computing, DevOps

## PORTFOLIO

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[akhil-devarapu-portfolio](#)