

DARSHAN P

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BACKEND DEVELOPER | FULL-STACK ENGINEER | AI CHATBOT INNOVATOR

- Backend Engineer with proven success in building and deploying secure, scalable web applications for **500+ users** using Node.js, Express, and MongoDB.
- Published AI researcher (**Scopus Indexed**) with hands-on experience developing intelligent chatbots and systems using Python, Gemini API, and NLP.
- Competitive problem-solver with **300+ DSA challenges** completed and top-3 finishes in multiple full-stack and IoT hackathons.

EDUCATION

Nagarjuna College of Engineering and Technology, Bangalore
Bachelor of Engineering in Computer Science and Engineering
CGPA: 8.8 / 10.0

Aug 2022 – Present (Expected Jun 2026)

EXPERIENCE

Backend Developer Intern, Nagarjuna Tech Solutions, Bangalore

Jan 2025 – Apr 2025

- Designed and implemented RESTful APIs using Node.js and MongoDB to serve 500+ users with secure authentication workflows.
- Collaborated with frontend and QA teams in Agile sprints, deploying new features and fixing over 15 production bugs, reducing release times by 20%.
- Created comprehensive API documentation and test suites using Postman, leading to a 30% reduction in integration issues.

KEY PROJECTS

Multi-Role Food Ordering System

Node.js, Express, MongoDB, EJS

- Engineered a multi-role platform (Admin, Seller, User) using MVC architecture, featuring dynamic routing and reusable components.
- Implemented secure, JWT-based authentication and session management for three distinct user types.
- Integrated real-time order tracking, dashboard analytics using Chart.js, and a scalable MongoDB schema to support 1000+ orders.
- Achieved 95% backend test coverage with Mocha and Chai; deployed with Docker and PM2 for high availability.

Mental Health AI Assistant

Python, Gemini API, Flask

- Engineered a conversational chatbot for mental health support that **increased user session time by 25%** and positive feedback by 40% during user testing.
- Designed over 50 dialogue flows with sentiment-aware responses using the Gemini API to simulate human-like empathy.
- Incorporated real-time emotion tracking and personalized follow-ups for a more engaging user experience.
- Built an analytics dashboard using Pandas and Matplotlib to monitor user sentiment trends and model performance.

Telemedicine Web Platform

MERN Stack, WebRTC, JWT

- Won 1st prize at an inter-college hackathon** by developing a full-stack platform enabling secure video consultations and health record management.
- Integrated JWT-based authentication, real-time WebRTC video calls, and encrypted prescription uploads for 250+ users.
- Achieved 98% uptime and a fully responsive design across all major devices during deployment.

RFID Based E-Vehicle Starter System

Arduino, Node.js, Serial Communication

- Secured 3rd place in a 40-team hardware hackathon** by engineering an RFID system that reduced unauthorized vehicle usage by 95%.
- Implemented real-time ignition logging and user access control via a Node.js dashboard.
- Utilized serial communication to integrate the Arduino-based hardware with the web backend.

AI Chatbot for Educational Institutions

Botpress, JavaScript, NLP

- Reduced manual support load by 60%** by deploying an NLP-powered chatbot handling 500+ academic and administrative queries with over 90% accuracy.
- Designed and implemented intent detection, entity recognition, and fallback responses for a seamless user experience.
- Integrated a user feedback module to enable continuous learning and performance improvement of the chatbot.

TECHNICAL SKILLS

- Languages:** JavaScript, Python, C++
- Backend:** Node.js, Express.js, RESTful APIs
- Frontend:** React.js, HTML, CSS, EJS
- Databases:** MongoDB, MySQL
- AI/ML:** NLP, Sentiment Analysis, Pandas, NumPy
- DevOps & Tools:** Git, Docker, Postman, VS Code, PM2
- Concepts:** Data Structures & Algorithms, MVC, JWT Auth, WebRTC

ACHIEVEMENTS & LANGUAGES

- Proven problem-solver with 300+ DSA challenges solved on LeetCode & GeeksforGeeks.
- Published paper on AI Chatbot (Scopus Indexed - ICKECS 2025).
- 1st Prize - Full-Stack Hackathon; 3rd Prize - IoT Hackathon.
- Finalist - Srishti 2024 Innovation Expo.
- Languages:** English (Fluent), Kannada (Native), Hindi (Conversational)