

DEVPRASAD B M

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Professional Summary

Final-year MCA student and Fullstack Developer with hands-on experience building scalable web and mobile applications using React, TypeScript, Python, and Flask. Strong foundation in API design, data-driven systems, and performance-aware frontend development. Experienced in integrating machine learning models as backend services and building secure, role-based platforms. Passionate about developing high-performance digital systems for large-scale, real-world use cases.

Technical Skills

Frontend: React.js, JavaScript (ES6+), TypeScript (Beginner), HTML5, CSS3, Tailwind CSS

Backend: Node.js (Basics), Express.js, Python, Flask, REST API Design

Databases: MySQL, MongoDB

Architecture & DevOps: Microservices Fundamentals, Docker (Basics), JWT Authentication

AI / Data: Scikit-Learn, Regression Models, Feature Engineering, Model Integration

Tools: Git/GitHub, Postman, Jest (Basics), VS Code

Concepts: OOP, DSA, API Security, Performance Optimization Basics, Agile

Education

Master of Computer Applications (MCA) 2024 – 2026

CGPA : 7.27 (First Year)

PES University, Bengaluru

Bachelor of Computer Applications (BCA) 2021 – 2024

CGPA : 9.2

Govt. Science College, Hassan

Experience

Web Development Intern — CodeAlpha Mar 2024

Virtual

- Built modular frontend components improving user engagement by 30%.
- Improved page load performance by 20% through DOM optimization and asset compression.

Front-End Development Intern — CODECLOUSE Jan 2024 – Feb 2024

Virtual

- Developed responsive UI components with cross-browser compatibility.
- Improved UI consistency and usability across multiple screen sizes.

Projects

Agro-Hub — Unified Marketplace with Demand & Price Prediction (MCA Capstone) 2025 – Present

- Developing a full-stack mobile platform connecting farmers, buyers, and vendors using Flutter and Flask.
- Designed RESTful APIs for crop listing, order management, and role-based access using JWT authentication.
- Integrated machine learning models (Scikit-Learn) as backend services to predict crop price, demand, and profit.
- Implemented MySQL-based data management for users, orders, and transactions.
- Integrated Razorpay payment gateway for secure and reliable digital payments.

Maatri Suraksha — Predictive Maternal Health Platform Oct 2025

- Built a full-stack health risk prediction platform using Python, Flask, and MongoDB.
- Integrated machine learning models to assess maternal health risks with 86%+ prediction accuracy.
- Designed secure REST APIs to process real-time health parameters and return risk assessments.
- Focused on scalable backend design and low-latency data processing for time-sensitive predictions.

Demand Forecasting Optimization System Feb 2025

- Developed a data-driven forecasting platform using Python and Flask.
- Improved prediction accuracy by 22% through feature engineering and model tuning.
- Built a performance-optimized analytics dashboard using Tailwind CSS.

Juggle.AI — AI SaaS Content Generation Platform Nov 2023 – Apr 2024

- Implemented MERN-based architecture for an AI-powered content generation platform.
- Integrated third-party AI APIs and optimized backend request handling.
- Improved system scalability and response time through database indexing and API optimization.

Achievements & Activities

- Recognized for innovation, debugging skills, and teamwork during internships.
- Represented district-level Kabaddi team; actively involved in cricket and volleyball.