

Deepak A S

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Professional Summary

Full stack developer with experience in React, Flask, and FastAPI, and growing expertise in Spring Boot. Skilled in building REST APIs, integrating NoSQL databases, and deploying decoupled web applications.

Education

PES University

Master of Computer Applications (MCA)

2023 – 2025

Bangalore, India

PESIAMS College

Bachelor of Computer Applications (BCA)

2020 – 2023

Shimoga, India

Work Experience

Centre for Healthcare Engineering and Learning (cHEAL)

Research & Development Intern

Mar 2025 – Present

- Leading frontend and backend development of **MindSync**, a wellness app supporting ADHD subtypes using ML-based personalization
- Developed RESTful backend with Flask for ML inference and task recommendations; integrated Firebase (NoSQL) for real-time data synchronization and UI rendering
- Worked across **Flutter**, **Firebase**, and **Flask** to deliver real-time behavioral insights and mood analytics

Projects

MindSync – ADHD Wellness Assistant | *Flutter, Firebase, Flask, Machine Learning*

A full stack, ML-driven Android wellness app for ADHD subtype prediction and adaptive focus.

GitHub

- Engineered RESTful **Flask API** to handle ML model inference; integrated with **Firebase** to synchronize predictions with **Flutter UI** in real time

- Built responsive dashboard with live mood tracking, secure auth, and real-time user analytics

Grovo – Agriculture & Labor Platform | *Flutter, Firebase, Razorpay API*

GitHub

A full stack mobile platform connecting farmers, vendors, and laborers with verified job listings and secure payments.

GitHub

- Developed end-to-end solution with **Flutter** frontend, and integrated **Firebase Auth**, **Firestore**, **Storage**, and **Razorpay APIs** for seamless workflows

- Developed secure authentication and CRUD workflows for farmers, vendors, and laborers using **Firebase Auth** and **Firestore**

TrustGuardAI – Ethical AI Ad Engine | *FastAPI, React.js, Supabase, Machine Learning*

GitHub

Full stack hackathon project: AI-powered ad filtering platform for emotional and ethical digital advertising.

- Developed **FastAPI REST backend** and **React** frontend as decoupled services; deployed independently on **Render** and **Vercel**, with **Supabase** as the central database; built intelligent agents: **EmpathyEngine** (emotional detection) and **TrustFlow+** (explanation)

- Designed mobile-first frontend using **React.js/Tailwind CSS** hosted on **Vercel**; managed analytics, feedback, and preferences in **Supabase**

Technical Skills

Programming Languages: Java, Python, SQL

Web Technologies: React.js, HTML5, CSS3, REST APIs

Mobile Development: Flutter, Android SDK, Firebase

Backend Frameworks: Spring Boot, Flask, FastAPI

Databases: MySQL, Firebase Firestore

Cloud & Messaging: AWS (basic), Apache Kafka (basic)

Core CS Concepts: Data Structures, Algorithms, OOP, Computer Networks, Software Engineering