

# MADHAV WADHWANA

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◊ LinkedIn: [Madhav](#)

◊ Github: [Madhav](#)

◊ Portfolio: [Madhav](#)

## EXPERIENCE

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### Full Stack Developer

Timeverse Ltd

July 2025 - Present

Ahmedabad, Gujarat

- Developing and maintaining the entire application stack, covering both frontend (React Native) and backend services.
- Built scalable mobile experiences with smooth navigation, animations, and robust state management.
- Designed and implemented reusable React components, optimized performance, and ensured pixel-perfect UI across devices.
- Developed and integrated RESTful APIs, managed database operations, and set up deployment pipelines for production-ready systems.
- Collaborated with cross-functional teams to deliver end-to-end features from concept to deployment.

### Product Development Intern

VisiLean Ltd

July 2024 - Oct 2024

Ahmedabad, Gujarat

- Leveraged GitHub *GraphQL* API for data ingestion and ETL processing, generating JSON-based analytical reports to enhance repo intelligence.
- Implemented a *Cesium JS*-powered 3D geospatial visualization module, augmenting UI/UX interactivity for geospatial analytics.
- Refactored and optimized Power BI dashboards, streamlining data pipelines and enhancing BI visualizations for data-driven decision-making.
- Synergized with cross-functional Agile squads throughout the *SDLC*, driving seamless *CI/CD* workflows from design inception to production rollout.

## PATENTS

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### Plantation and Habitat Control Device for Vegetative Propagated Crops

*Patent No: 2023210141007 A | Filed Jul 16, 2025*

- A cuboidal device equipped with motorized wheels for maneuvering across farm fields.
- Includes a storage chamber, screw conveyor, processing chamber, and motorized cutter to prepare crop segments for sowing.
- Features a soil quality assessment module that provides real-time ground condition analysis.
- Equipped with fertilizer and water storage systems, regulated through valves and pipes, and a robotic arm with a digging unit for automated sowing.

### Mobile Device for Rejuvenating Diabetic Patients

*Patent No: 202521068003 | Filed Jul 16, 2025*

- A mobile device mounted on wheels with a data input module to capture user profile, medical prescriptions, and desired health goals.
- Incorporates an image sensing module for user identification and a wearable band to track real-time vital parameters.
- Features a food preparation module that generates customized diets by comparing prescriptions, vitals, and goals with a pre-stored database.
- Includes a blood glucose monitor, smart glasses for guided exercises, and robotic arms to physically support the user during workouts.

SKILLS

Languages	C/C++, Python, Java(Beginner), HTML, SQL
Libraries/Frameworks:	PyTorch, TensorFlow, Git, Docker, OpenCV, Flask, Django, Spring Boot(Beginner)
Technologies:	Visual Studio, Microsoft 365, AWS (EC2, SageMaker, etc), Azure, HuggingFace
Database:	PostgreSQL, MongoDB
Frontend Development:	React, React Native, JavaScript, TypeScript, CSS, Tailwind, Redux, State Management, UI/UX Optimization
Backend & APIs:	Node.js, Flask, Django, REST APIs

EDUCATION

Marwadi University, India	July 2021 - May 2025
Bachelor's in Computer Engineering, Specialization in Artificial Intelligence	
Relevant Coursework: Machine Learning, Data Science, Representation Learning (incl. LLMs)	

PROJECTS

Password Generator	<a href="#">Github</a>
<ul style="list-style-type: none"><li>Developed a Java console application project focused on password generation and strength assessment. Utilized Apache Maven for streamlined project management and dependency handling.</li></ul>	
Attendance Tracker using JSP, JDBC, HTML & CSS	<a href="#">Github</a>
<ul style="list-style-type: none"><li>Developed an Attendance Tracker using JSP, JDBC, HTML, and CSS, facilitating simplified tracking and management of attendance records for educational or organizational purposes.</li></ul>	
Credit Card Input	<a href="#">Github</a>
<ul style="list-style-type: none"><li>Built and customized a <b>React Native credit card input component</b> with real-time validation and smooth animations to enhance secure mobile payment experiences.</li></ul>	
Billing System using Java Swing & JDBC	<a href="#">Github</a>
<ul style="list-style-type: none"><li>Engineered a Billing System with Java Swing and JDBC, enabling users to manage transactions, generate invoices, and maintain a sales database efficiently.</li></ul>	
Cryptocurrency Price Difference Prediction	<a href="#">Github</a>
<ul style="list-style-type: none"><li>Built a Bi-directional LSTM model using TensorFlow and Keras to predict cryptocurrency price differences from historical data.</li><li>Optimized model performance through hyperparameter tuning and integrated real-time data via API for accurate forecasting.</li></ul>	
QR Generator	<a href="#">Github</a>
<ul style="list-style-type: none"><li>Developed a dynamic webpage utilizing an API to generate QR codes from user-input text, enhancing user interactivity and functionality. Implemented efficient front-end design ensuring seamless integration and userfriendly experience.</li></ul>	
3D Globe Integration	<a href="#">Github</a>
<ul style="list-style-type: none"><li>Developed and integrated a 3D globe feature into a web application using Cesium JS. Enhanced user interaction with geographical data by enabling interactive geographical visualizations. The globe was designed to be fully responsive and accessible across different devices.</li></ul>	
Ai-Assistant-integrated-with-DeepSeek-API	<a href="#">Github</a>
<ul style="list-style-type: none"><li>Developed a cross-platform React Native app integrated with DeepSeek API to deliver AI-generated responses in real-time with streaming. Implemented low-latency, context-aware conversational features, multi-platform support, and a customizable UI using React Native Reanimated, React Context API, and Tailwind CSS.</li></ul>	