

# Aryan Tiwari

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## SKILLS SUMMARY

- Languages:** JavaScript, TypeScript, Python, Java, C, SQL
- Frameworks:** MERN Stack, Next.js, Shadcn, Flask, Pandas, NumPy, Scikit-Learn, PyTorch
- Tools:** WebStorm, Postman, Git & GitHub, Google Collab
- Platforms:** Vercel, Netlify, MySQL, PostgreSQL, MongoDB Atlas
- Soft Skills:** Problem Solving, Critical Thinking, Time Management, Effective Communication, Adaptability

## WORK EXPERIENCE

### Crop and Fertilizer Recommendation System21 Jan 2025 – 21 Feb 2025

- Developed & trained** ML models (**Random Forest, SVM**) to analyse soil, climate, and nutrient data, improving crop recommendation accuracy by **15%**.
- Built a Flask-based REST API**, enabling real-time predictions for farmers, improving accessibility.
- Optimized data preprocessing pipeline**, reducing model training time by **30%**, and collaborated on dataset analysis to enhance model precision.
- Deployed** a web dashboard for **visualizing predictions & insights**, increasing farmer adoption rate by **20%**.

## PROJECTS

### Banking App with Finance Management Dashboard15 Dec 2024 – 20 Jan 2025

- Built a full-stack banking system**, enabling users to manage multiple bank accounts and track **real-time transactions** securely. **Designed and implemented a secure money transfer system**, allowing seamless transactions between users on the platform.
- Integrated** an end-to-end **money transfer system** using **Twilio API & Appwrite**, ensuring seamless and **secure payments with 99.9% uptime**.
- Developed** an interactive dashboard with **dynamic financial insights**, increasing user engagement by **40%**.
- Tech Stack:** React, Next.js, Twilio API, Appwrite, Tailwind, Shadcn, Sentry, TypeScript.

### Patient Management System23 Feb 2025 – 06 Mar 2025

- Designed & developed** a **scalable healthcare system**, streamlining **patient registration, appointment scheduling, and medical record management**.
- Implemented** secure **authentication & access control**, ensuring **HIPAA compliance** for sensitive patient data.
- Integrated automated SMS notifications (via Twilio API)**, reducing patient no-show rates by **25%**.
- Tech Stack:** React, Next.js, Twilio API, Appwrite, Tailwind, Shadcn, Sentry, TypeScript.

## EDUCATION

Vellore Institute of TechnologySept 2022 – Present  
B.Tech. in Computer Science and EngineeringGPA: 8.58

## CERTIFICATES

Python for Data Science, AI & Development - IBM	Feb 2024
Cloud Computing - NPTEL	Jan – Apr 2024
Badge 365 Days - LeetCode	June 2024