

Yogesh Vadivel

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SUMMARY

Full-Stack Developer specializing in building production-grade web and machine learning systems. Developed and deployed an automated stock prediction platform using LightGBM, feature engineering, and CI/CD pipelines processing financial and sentiment data for 100+ stocks. Experienced in backend architecture, REST APIs, database design, and deploying scalable applications across cloud platforms.

SKILLS

Languages: Python, JavaScript, TypeScript, C

Backend: Node.js, Express.js, Flask, FastAPI

Frontend: React.js, Next.js, HTML, CSS, Tailwind CSS

Databases: MongoDB, PostgreSQL, SQLite

Tools & Cloud: Git, Linux, Vercel, Render, GitHub Actions (CI/CD)

PROJECT

StockPredict AI — Full-Stack Stock Analytics Platform

stockpredict.dev

- Built and deployed a full-stack ML platform generating daily predictions for S&P 100 stocks across multiple time horizons.
- Engineered financial, technical, and sentiment features and trained LightGBM models to predict stock log-return movements.
- Designed a fully automated data pipeline using GitHub Actions for data ingestion, feature engineering, model training, and prediction generation.
- Stored prediction results, features, and explanations in MongoDB and served them via backend APIs for real-time frontend visualization.
- Integrated SHAP explainability and Google Gemini to generate human-readable AI explanations for model predictions.
- Deployed frontend on Vercel and backend services on cloud infrastructure with CI/CD automation.

ExpenseVision — Expense Tracking Application

expensevision-ip5u.onrender.com

- Developed a full-stack expense tracker using Flask, JavaScript, HTML/CSS, and PostgreSQL for tracking, filtering, and analyzing transactions.
- Built RESTful APIs for CRUD operations, analytics aggregation, and CSV data export.
- Implemented OCR pipeline using Verifi API and custom parsing logic to extract receipt data automatically.
- Created analytics dashboards using Chart.js to visualize spending trends and category breakdowns.
- Implemented secure authentication, session management, and database security best practices.
- Built an AI “spending coach” feature where DeepSeek R1 analyzes recent transactions and returns spending insights and budgeting tips.

EXPERIENCE

Full Stack Developer Intern

SmallCap.AI

Jun 2024 - August 2024, Dubai (Remote)

- Developed role-based Admin and User dashboards using React.js to manage users, workflows, and platform operations.
- Designed and implemented RESTful backend APIs using Node.js and Express.js enabling secure, scalable database communication.
- Improved platform performance and usability by optimizing API response times and refining frontend interaction flows.
- Collaborated in an agile development environment using Git version control, sprint workflows, and peer code reviews.

EDUCATION

Bachelor of Computer Science

Manipal Academy of Higher Education · Dubai, UAE · 2021-2025

CERTIFICATIONS

CSSO Python (Harvard)

CS50X (Harvard)

AWS Cloud Practitioner Essentials (AWS Training)