

# Khush Pithva

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## Personal Profile

Computer Science undergraduate at Nirma University with strong interest in Artificial Intelligence, Machine Learning, and software development. Skilled in Python, C++, and modern web technologies with hands-on experience developing full-stack applications and machine learning based systems. Passionate about solving real-world problems through intelligent technology solutions.

## Education

### 2024 – 2028: B.Tech in Computer Science and Engineering

*Nirma University, Ahmedabad, India*

Relevant Coursework: Data Structures, Machine Learning, Database Management Systems, Operating Systems, Computer Networks.

### 2022 – 2024: Higher Secondary Education (Science Stream)

*Vivekanand Science Academy, Gujarat*

### 2019 – 2022: Secondary School Certificate (SSC)

*Shikhar Public School, Gujarat*

## Projects

### Smart Container Risk Intelligence Platform | 2026

*Live Demo: <https://smartcontainerrrr.vercel.app/>*

- Developed an AI-powered customs risk prediction platform to detect high-risk shipping containers.
- Implemented machine learning models combined with rule-based intelligence and historical importer analysis.
- Built a full-stack architecture using React, Node.js, FastAPI, and MongoDB.

### Core Inventory Management System | 2026

- Developed a modular inventory management platform to manage products, stock levels, and warehouse operations.
- Implemented dashboard analytics and real-time stock tracking.
- Built backend APIs using Node.js with database integration.

### Stock Market Analyzer | 2025

- Developed a stock analytics platform that generates BUY/HOLD/SELL signals using technical indicators such as RSI, MACD, and Moving Averages.
- Implemented portfolio optimization, sentiment analysis, and strategy backtesting using Python, FastAPI, and machine learning models.

### Expense Tracker | 2025

*Live Demo: <https://exptracerrrr.vercel.app/dashboard>*

- Built a web application for tracking daily expenses with dashboard visualization.
- Implemented expense categorization, transaction history, and budgeting features.

### Safe-Scan Lite – QR Code Security Scanner | 2025

- Developed an AI-powered QR code scanner that detects potential malicious URLs and security threats.
- Implemented real-time camera scanning, file upload scanning, and URL analysis features.

## Skills

Programming: Python, C, C++, JavaScript, TypeScript

Web Development: React.js, Node.js, Express.js, HTML, CSS

Data Science: Pandas, NumPy, Matplotlib, Scikit-learn

Database: MongoDB, PostgreSQL

Tools: Git, GitHub, Linux, VS Code