

Preet Patel

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EDUCATION

New York University

Master of Science in Computer Science

Brooklyn, NY

Sept. 2023 – May 2025

SRM Institute of Science and Technology

Bachelor of Technology in Electronics and Communication Engineering

Chennai, India

July 2019 – May 2023

EXPERIENCE

Software Development Intern

Ocean Shark LLC

June 2024 – Aug. 2024, Feb. 2025 – Present

Old Bridge, NJ

- Collaborated on building scalable web platforms using Node.js, Express, and AWS services (EC2, S3, Lambda), cutting backend infrastructure costs by 30%.
- Designed and deployed a modular microservices architecture, improving system uptime and handling a 200% spike in user traffic.
- Streamlined deployment cycles by setting up automated CI/CD pipelines with Docker and GitHub Actions, reducing release time by 60%.
- Developed real-time analytics dashboards with AI-driven insights, increasing feature adoption and client engagement by 35%.
- Built a lightweight recommendation engine using clustering and behavioral data analysis, enhancing personalized user experience.

Machine Learning Intern

Bosch Chassis Systems India Pvt. Ltd

June 2022 – Aug. 2022

Pune, India

- Analyzed 100,000+ energy consumption data points, optimizing power usage in manufacturing units.
- Developed an Energy Consumption Bot that automated energy audits, reducing manual workload by 40%.
- Created a Machine Learning model that optimized sensor threshold values, improving machine efficiency by 25%.

Software Development Intern

Adaptable Services

Jan. 2022 – Apr. 2022

Surat, India

- Designed and developed an online survey application for iOS and Android using Flutter, increasing survey response rates by 35%.
- Implemented backend API integrations for real-time data collection, reducing data processing time by 50%.

PROJECTS

AI-based Vehicle Management System | OpenCV, dlib, C++, Python

Aug. 2022 – May 2023

- Developed an AI-driven vehicle monitoring system using OpenCV and dlib, enabling real-time analysis of driver drowsiness and inattentiveness from live camera feeds.
- Engineered an automated intervention module to halt and secure the vehicle based on cognitive state thresholds, enhancing driver safety protocols.
- Achieved 95% accuracy in facial behavior analysis through optimized real-time face tracking and attention detection algorithms.

Food Calorie Measurement Using DNN | Python, Flask, PyTorch, Keras, Flutter

Aug. 2021 – May 2022

- Designed a deep learning-based calorie estimation pipeline using computer vision techniques, trained on 10,000+ annotated food images across diverse Indian cuisines.
- Built and deployed a cross-platform mobile application with Flutter, integrating a Flask API for seamless model inference and real-time calorie tracking.
- Achieved 92% test accuracy using a hybrid DNN model developed in PyTorch and Keras, contributing toward AI-powered nutrition tracking solutions.

FREELANCE PROJECTS

PaperCupPro – Inventory & Staff Management | HTML, CSS, JS, PHP, MySQL

Aug. 2022 – Oct. 2022

- Developed a custom web application for a paper cup manufacturing business with integrated inventory tracking and order management modules, reducing manual tasks by 30%.
- Implemented staff scheduling and task assignment features, improving workforce efficiency by 20%.
- Built a secure admin dashboard for real-time inventory insights and production planning, streamlining daily operations and reducing delays.

TECHNICAL SKILLS

Languages: Python, C++, Javascript, C | **Technologies:** AWS, RabbitMQ, Docker, Kubernetes, Kafka, WebSocket, Nginx | **Frameworks/Libraries:** Nodejs, Flask, React, TensorFlow, Sci-kit Learn | **Databases:** MySQL, MongoDB, Redis, Cassandra