

Priyank Jhaveri

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PROFESSIONAL EXPERIENCE

- AI/ML Engineer and App Developer, Uplify AI, New York, United States (Remote)** Sep 2025 — Present
- Developing and enhancing cross-platform iOS and Android app features, improving UI/UX and core mobile functionality.
 - Building and tuning machine learning models, including data preprocessing, research, and algorithm optimization.
 - Collaborating with the engineering team to deliver sustainable, empathy-driven product features.
- Graduate Research Assistant, Drexel University, Philadelphia, United States** Apr 2025 — Jun 2025
- Developed a **novel generative AI** framework to produce **high-fidelity synthetic patient data**, overcoming key data privacy barriers in cancer care research.
 - Enabled the **validation of AI-driven systems** designed to provide **personalized, on-demand supportive content** for caregivers and patients.
- App and Web Developer, Vyavasay Solutions, Mumbai, India** Dec 2022 — Jul 2023
- Led the development of **multiple full-stack digital solutions**, including a **workforce management** app with **efficient employee verification** and a comprehensive suite of three apps and a website to digitalize preschool operations.
 - Analyzed **diverse client requirements**, from **seamless clock-in/out processes** to the logistics and administrative tasks, translating complex workflows into integrated digital solutions.
 - Streamlined daily operations for multiple clients, **optimizing workforce management** while also **improving efficiency by 25%** and communication for both front and back-office preschool administration.
- AI/ML Intern, University of Naples Federico II, Naples, Italy** Sep 2022 — Dec 2022
- Solved a critical failure point in a **predictive maintenance system** by using **generative AI** to **simulate future, high-stress** road conditions not found in historical data.
 - Provided more **accurate and reliable** deterioration forecasts, helping authorities make **better-informed decisions** on road maintenance and repair schedules.
- Project Management Intern, Siemens energy, Pune, India** Aug 2021 — Sep 2021
- Contributed as an intern at Siemens Energy by creating **detailed project reports**, summarizing **key findings**, and **analyzing project data**.
 - Collaborated with project teams to **gather insights** and ensure **accurate documentation** of progress and outcomes.
 - Provided **valuable data-driven insights**, helping to inform decision-making and **improve project efficiency**.

EDUCATION

- Drexel University, Philadelphia, United States - Master; Computer Science - (GPA: 3.75/4.0)** Sep 2024 — May 2026
- Shah & Anchor Kutchhi Engineering College, Mumbai, India - Bachelor; Computer Science - (GPA: 3.62/4.0)** Sep 2020 — Jun 2024

PROJECTS

- Dental Disease Detector** Feb 2024
- Addressed the **core problem of data scarcity** in medical imaging by using **generative AI** to **build a robust dataset** of synthetic dental radiographs.
 - Led to **superior overall accuracy** in the automated detection of dental conditions, with fine-tuned models like **Xception** and **DenseNet** enhancing the diagnostic system.
- Personal Expense Tracker , Philadelphia, United States** Mar 2025
- Automatically **categorizes transactions** using NLP and adapts budgets based on **real-time spending behavior** and **seasonal patterns**, helping users stay on track without manual input.
 - Uses **machine learning** to forecast future income, bills, and potential **overspending** risks—enabling **proactive financial planning** and alerting users before problems occur
 - Provides **personalized financial advice**, spending insights, and **responds to user queries in natural language**—acting like a 24/7 financial coach.

SKILLS

Programming Languages : Python, JavaScript, Java, C, Dart

Data Manipulation : Pandas, NumPy

Machine Learning : PyTorch, TensorFlow

Frameworks

Web Development : Django, ReactJS, AngularJS, NodeJS, Flask

Database Management : MongoDB, MySQL, Firebase

PUBLICATIONS

Road Maintenance System using YOLOV7, 2023 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN) Oct 2023