

# HEMIL PATEL

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Github

MyPortfolio

## EDUCATION

### Stevens Institute of Technology

Master of Science in Computer Science

Sept. 2022 - May. 2024

New Jersey, USA

### Gujarat Technological University

Bachelor of Technology in Information Technology (IT)

Aug. 2015 - May 2019

Ahmedabad, India

## SKILLS

**Languages:** Python, JavaScript, TypeScript, SQL, Shell/Bash Scripting

**Web Technologies:** React.js, Node.js, Express.js, Redux, Next.js, HTML, CSS, Bootstrap, RESTful API, JSON, GraphQL

**Databases:** MySQL, MongoDB, Redis, Oracle, PostgreSQL

**ML and DL Frameworks:** Pandas, NumPy, Scikit-Learn, Keras, TensorFlow, OpenCV, Spark-mllib

**Tools and Technologies:** Postman, AWS, Docker, Airflow, Cloud Computing, GIT, Jenkins, CI/CD, JIRA, Pyspark, Kafka

## WORK EXPERIENCE

### Machine Learning Engineer

Deets Digital Pvt. Ltd.

Feb. 2022 - Aug. 2022

Ahmedabad, India

- Developed **RESTful APIs** utilizing **Flask** to incorporate database functionalities, end-user interface, credit score checks, and pricing data retrieval to automate small-scale financing for retail customers, resulting in a significant monthly revenue increase of **\$50k**.
- Automated and optimized business logic functions using **Python**, for sales forecasting and inventory management, eliminating dependency on Excel spreadsheets, which reduced man-hours by **99%**.
- Managed databases, leveraging **SQL** and **NoSQL** technologies to ensure efficient data storage, retrieval, and query execution.
- Engineered **CI/CD** pipelines integrating **GitHub**, **GitHub Actions**, and **Docker**, reducing setup time.

### Data Scientist

HiTech ISolutions LLP

Oct. 2019 - Jan. 2022

Ahmedabad, India

- Implemented credit default model utilizing **Logistic regression** to assess credit risk based on credit scores and internal data (over 1 million data points) with **85%** accuracy, resulting in **30% reduction** in operational costs.
- Built ETL pipelines using **Apache Airflow**, facilitating faster training and data preprocessing, shortening the project lifecycle.
- Created unit tests, reducing deployment time by **15%** for production code and ensuring code quality using Git for version control.
- Led a team of **2** to operationalize a product identification tool in **Python** using **OCR** techniques, **Named Entity Recognition** model, and **YOLO object detection** model, achieving **90% accuracy**.
- Engineered Python scripts for each step in the data science project lifecycle, leveraging **Pandas** and **Sklearn** libraries.
- Recruited and trained **3+ new hires**, oversaw project management and documentation using **JIRA**, and conducted code reviews.

### Data Analyst Intern

Divine Infosys Pvt. Ltd.

Apr. 2019 - Jul. 2019

Ahmedabad, India

- Implemented a deep learning **Transformer** model in **Python** to automatically generate text summaries and classify legal cases achieving **82% accuracy**, and enhancing efficiency in legal procedures.
- Crafted **5+** dashboards featuring over **10 essential KPIs**, using **SAP Lumira** with a focus on supply chain operations.

## PROJECTS

### Real-Time Chat APP | Nest.js, TypeScript, Prisma, Postgres, GraphQL, Redis, Docker

- Developed a scalable chat app using **Nest.js & Postgres**, enabling users to chat, share files, and create customizable chat rooms.
- Implemented **GraphQL** subscriptions utilizing WebSockets to establish real-time communication between the backend and frontend, to seamlessly integrate event listening and obtain real-time updates.
- Utilized **Redis** to store and dynamically update the list of active users in the chat room.
- Implemented Login and Sign-Up functionality with all the validations using **JWT** tokens for secure user authentication.

### Cloud based Task-Manager | React(Vite), Redux, Tailwind CSS, Node.js, Express.js, MongoDB

- Created a MERN stack project management app with core features like task assignment, progress tracking, and file sharing.
- Integrated functionalities using **React.js** with **Redux** in the frontend, employed **Express.js** as middleware and utilized **MongoDB** for database management that communicates with the backend in **Node.js** through **RESTful APIs**.
- Developed user management functionalities such as user authentication, authorization and profile management using JWT tokens.

### Portfolio Website | TypeScript, Next.js, Tailwind CSS, Vercel

- Developed a portfolio website utilizing **TypeScript**, **Next.js**, and **Tailwind CSS** to showcase a diverse range of projects.
- Implemented Resend API for email sharing and integrated Framer Motion for dynamic animations, hosted on Vercel.

## EXTRACURRICULAR

- Served as a Teaching Assistant for Python programming at my undergrad institution in the Computer Science department.
- Played on the competitive Counter-Strike college team for 3 years as an IGL (In-Game Leader).
- Member of competitive swimming team in high school until 2014. Competed at the state level.