

HEMIL PATEL

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SKILLS

Languages: Python, JavaScript, TypeScript, Java, Shell/Bash Scripting

Web Technologies: React.js, Node.js, Express.js, Redux, Next.js, HTML, CSS, REST APIs, Flask, Django, FastAPI

Databases: MySQL, MongoDB, Redis, PostgreSQL

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

Cloud platforms and Devops: AWS, Azure, Docker, Postman, GIT, Jenkins, CI/CD, JIRA, Databricks

WORK EXPERIENCE

Software Engineer

Feb 2022 - Aug 2022

Deets Digital Pvt. Ltd.

- Designed and implemented scalable APIs and background workers to operationalize small-scale financing for retail customers using **Flask**, **Azure Functions**, and other **Azure cloud technologies** that serve thousands of requests daily.
- Achieved monthly revenue increase of **\$50k** through optimized accessibility and accelerated customer financial transactions.
- Completely automated business logic functions using **Python**, for generating sales forecasting and inventory management reports, eliminating dependency on Excel spreadsheets, resulting in a significant reduction in man-hours.
- Managed databases, leveraging **SQL** and **NoSQL** technologies to ensure efficient data storage, retrieval, and query execution.
- Engineered **CI/CD** pipelines and conducted code reviews with **GitHub**, **GitHub Actions**, and **Docker**, streamlining project setup.

Software Engineer

Oct 2019 - Jan 2022

HiTech ISolutions LLP

- Implemented credit default model utilizing **Logistic regression** with **85% accuracy** to assess credit risk based on credit scores and internal data, resulting in a **30% reduction** in operational costs.
- Built ETL pipelines to perform feature extraction, facilitating faster training and data preprocessing, shortening project lifecycle.
- Developed a product identification tool using **OCR** methods, **Named Entity Recognition**, and **YOLO object detection** models.
- Achieved **90% accuracy** for identifying product names and prices using the above algorithms on out-of-sample dataset.
- Created unit tests, reducing deployment time by **15%** for production code and ensuring code quality using Git for version control.
- Recruited and trained **3+ new hires**, oversaw project management and documentation using **JIRA**, and conducted code reviews.

Machine Learning Intern

Apr 2019 - Jul 2019

Divine Infosys Pvt. Ltd.

- Implemented a **Transformer** model achieving **82% accuracy**, to automatically generate text summaries and classify legal cases.
- Developed a custom data extraction solution leveraging **Selenium** to retrieve legal case documents from selected list of websites.
- Crafted **5+** dashboards featuring over **10 essential KPIs**, using **SAP Lumira** with a focus on supply chain operations.

EDUCATION

Stevens Institute of Technology

Sept 2022 - May 2024

Master of Science in Computer Science

New Jersey, USA

Gujarat Technological University

Aug 2015 - May 2019

Bachelor of Technology in Information Technology (IT)

Ahmedabad, India

PROJECTS

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 **REST APIs**.
- Developed user management functionalities such as user authentication, authorization and profile management using JWT tokens.

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.

Catan Board Generator | *TypeScript, CSS, Vercel, Multithreading*

- Developed a web application to generate random Settlers of Catan boards, hosted on Vercel ([Website](#)).

EXTRACURRICULAR

- Served as a Teaching Assistant for Python programming at my undergrad institution in the Computer Science department.