

HEMIL PATEL

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🌐 [Linkedin/Hemil](#)

🐙 [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

WORK EXPERIENCE

Software Engineer

Deets Digital Pvt. Ltd.

Feb 2022 - Aug 2022

Ahmedabad, India

- 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.
- 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.
- Fine-tuned database architecture utilizing **SQL** to manage inventory-related metadata, monthly sales data, inventory stock levels, and stores/warehouse information, enhancing data management capabilities.
- Managed **CI/CD** pipeline and conducted code reviews with **GitHub**, **GitHub Actions**, and **Docker**, streamlining project setup.

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 to perform feature extraction through exploratory data analysis and **Principal Component Analysis (PCA)**, streamlining data acquisition and enhancing decision-making processes.
- 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**.
- Created unit tests, reducing deployment time by **15%** for production code and ensuring code quality using Git for version control.
- 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.
- 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.

SKILLS

Languages: Python, JavaScript, TypeScript, 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

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

ACADEMIC PROJECTS

Catan Board Generator | TypeScript, CSS, Vercel

- Developed a web application to generate random Settlers of Catan boards, catering to friends and family for memorable board game nights. Hosted on Vercel ([Website](#)).

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

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.