# HEMIL PATEL

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## 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*

## SKILLS

**Languages**: Python, JavaScript, 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, CI/CD, , JIRA, Pyspark, Kafka

## WORK EXPERIENCE

**Machine Learning Engineer**                                         Feb. 2022 - Aug. 2022
*Deets Digital Pvt. Ltd.*                                                  *Ahmedabad, India*

- Developed microservices utilizing **Flask APIs** to incorporate database functionalities, end-user interface, credit score checks, and pricing data retrieval to automate small-scale financing for retail customers.
- Optimized accessibility and accelerated financial transactions, resulting in a significant monthly revenue increase of **$50k**.
- Collaborated with stakeholders to grasp business requirements and deliver solutions efficiently, achieving a **95%** alignment rate.
- Automated and optimized business logic functions using **Flask APIs** in **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** solutions integrating **GitHub**, **GitHub Actions**, and **Docker**, reducing setup time.

**Data Scientist**                                                    Oct. 2019 - Jan. 2022
*HiTech ISolutions LLP*                                                    *Ahmedabad, India*

- Implemented a **Logistic regression** model to predict the likelihood of customer default, from credit scores and internal data (over 1 Million data points) with over **85% accuracy**.
- 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 engineers** to operationalize a product identification tool from promotional images and compare it with the product catalog in **Python** using **OCR** techniques, **Named Entity Recognition** model, and **YOLO object detection** model.
- Achieved **90% accuracy** in extracting names and prices from new images, resulting in a **40-hour** reduction in weekly manpower.
- Engineered **Python** scripts for each step in the data science project lifecycle including data acquisition, data cleaning, data exploration, and writing machine learning algorithms 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**                                               Apr. 2019 - Jul. 2019
*Divine Infosys Pvt. Ltd.*                                                 *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.
- Built an efficient data scraping tool using **Selenium** to extract legal case documents from a carefully selected list of websites.
- Created and fine-tuned a structured **SQL** database to map legal cases and their respective summary for training dataset.
- Crafted **5+** dashboards featuring over **10 essential KPIs**, using **SAP Lumira** with a focus on supply chain operations.

## PROJECTS

**Portfolio website**: Personal portfolio website developed using **JavaScript**, **ReactJS**, and **NextJS**, and deployed on Vercel. (Link)
**Expense tracker personal**: Developed a personal expense tracker web app using **MERN** stack.

## 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.