

HEMIL PATEL

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Education

Stevens Institute of Technology

Master of Science in Computer Science

Sept. 2022 - May. 2024

Hoboken, New Jersey

Gujarat Technological University

Bachelor of Technology in Information Technology (IT)

Aug. 2015 - May 2019

Ahmedabad, India

Relevant Coursework

- Web programming
- Enterprise and cloud computing
- Artificial intelligence
- Data structures and algorithms
- Database management system
- Machine learning

Skills

Languages: Python, C/C++, JavaScript, Java, ReactJS, R

Databases: MySQL, Postgre SQL

ML & DL Frameworks: Pandas, NumPy, SKlearn, Keras, TensorFlow

Technologies: PowerBI, Tableau, AWS, Rest API, Spark

Work Experience

Data Scientist

Jan. 2022 - Aug. 2022

Deets digital Pvt. Ltd.

Ahmedabad, India

- Working with the data science team to develop AI/ML solutions (SaaS) in areas of fintech, healthcare, and human-resources.
- Reviewed ML models and wrote documentation eliciting model usage, justification as well as validation for Fintech clients.

Data Scientist

Oct. 2019 - Jan. 2022

HiTech ISolutions LLP

Ahmedabad, India

- Build various tools for clients based on machine learning and deep learning models.
- Integrated above mentioned technologies to develop analytical dashboards/ frontend application.
- Oversaw maintenance of GitHub repository, code review, project documentation, and client communication.
- Promoted to Tech lead in 1 year and undertook responsibilities to supervise and mentor new hires.

Machine Learning Engineer

April. 2019 - July. 2019

Divine Infosys Pvt. Ltd.

Ahmedabad, India

- Hired as Jr. Engineer in their newly founded AI/ML team to work on NLP based projects.
- Additionally, took responsibilities for data visualization and database management for the firm's clients in SAP.
- Worked on Transformer model implementation to generate automated text summaries from large text files.

Projects

Price Compliance (Client: Reckitt Benckiser) | Python, OCR, Custom NER, Object detection

Oct. 2020 - Mar 2021

- Built an application to identify products and prices from promotional images and compare with their product catalogue.
- Used OCR techniques to extract product names and their descriptions from promotional images.
- Trained a custom NER model that identifies product names from the above-mentioned extracted text.
- Implemented YOLO object detection model to extract prices from the images.
- Achieved 82% accuracy for predicting product names and prices using the above two algorithms on out-of-sample dataset.

Supply Chain Management Automation (Client: OLA) | Python, SQL

Jan. 2022 - Feb. 2022

- Generated a database to store inventory related metadata such as monthly sales, inventory stock, store/warehouse details, etc.
- Built an application in python to implement and automate business logic functions for sales forecasting and inventory management.
- Improved efficiency by removing client's dependency on spreadsheets using above-mentioned application.

Probabiltiy of Default Model (Client: Light Microfinance) | Python, SQL

Mar. 2022 - Jun. 2022

- Created a defaulting model from credit scores and internal data to predict the probability of default.
- Performed feature selection through exploratory data analysis and Principal Component Analysis (PCA).
- Trained a logioistic regression model to predict probability of default.
- Developed an analytical dashboard in PowerBI for overview of all the features and changes.
- Achieved 78% accuracy for predicting defaulting probability of new customers.

Backend Interface for Microfinancing Sols. (Client: DiliNow) | Python (Flask API), SQL

Jul. 2022 - Sept. 2022

- Developed a backend interface for the client to facilitate small-scale financing for retail customers.
- Designed a database schema to warehouse merchant/vendor information as well as end-user details.
- Implemented business logic using flask API to integrate database, pricing framework, and end-user interface (WhatsApp).
- Documented project workflow and maintained Github repository subsequent to pushing codebase into production.

Extracurricular

- Served as Teaching Assistant for Python programming at undergrad institution in 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 state level.