

Fenil Patel

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TECHNICAL SKILLS

Languages: Python, R, SAS, Java

Libraries: NumPy, Pandas, NLTK, Scikit Learn, Matplotlib, Plotly

Database Management System: MySQL, SQL, MS SQL Server

Machine Learning: Unsupervised Learning (Clustering, Recommendation Systems), Supervised (Regression, Classification)

Cloud Computing: AWS, Azure

Operating System: Linux, Windows

Tools & Technologies: Tableau, Power BI, Looker, Microsoft Office (PowerPoint, Excel, Word, Visio), JIRA, Confluence, GitHub

Other Skills: Business Intelligence (BI), Data Analysis, Data Visualization, Probability, Statistical Analysis, Data Documentation

EDUCATION

Illinois Institute of Technology

Master's of Computer Science

Illinois, USA

Aug 2023 – May 2025

Gujarat Technological University

Bachelor of Engineering, Computer Engineering

Gujarat, India

Jun 2019 – Jun 2023

EXPERIENCE

Software Developer Intern

Acodesoft Technologies

Jan 2023 – Apr 2023

Gujarat, India

- Wrote clean, efficient, and scalable code in **Python** for high-performance data management and processing applications, leading to a **15%** reduction in processing time and enhanced efficiency.
- Executed thorough test cases, increasing **test coverage by 40%** & **identified issues** through detailed unit testing & troubleshooting.
- Built and deployed **RESTful APIs**, used development experience with **stored procedures and views to optimize SQL queries** and improve data retrieval by 15%.
- Collaborated with cross-functional teams and worked with end users and stakeholders to gather requirements, while providing support in documentation within a fast-paced, dynamic environment.

Data Analyst Intern

Dynamic Dreamz

Jan 2021 – Apr 2021

Gujarat, India

- Preprocessed large structured and unstructured datasets, including **data cleaning, data processing, and exploratory data analysis (EDA)** into usable formats with attention to detail and accuracy.
- Employed advanced **Excel techniques (Pivot tables, VLOOKUP, Power Query)** to analyze and summarize large datasets.
- Built **SQL scripts** containing rules and transformations required for data processing ensuring consistency and reliability across all data transformations with **20%** increase in query execution.
- Developed and implemented **ETL processes** in Python and SQL, reducing data processing time by **25%** to store data in data warehouse.
- Collaborated with stakeholders to understand data requirements and contributed to **developing actionable visual reports**.
- Improved existing **Tableau reports** to enhance data-driven decision-making, **identified key trends & relationships** and translated findings into actionable business insights.

ACADEMIC PROJECTS

Historical Indian Initial Public Offering (IPOs) & Financial Market Analysis

Jul 2024 – Aug 2024

- Exhibited strong data visualization and analytical skills by developing **PowerBI** dashboard & performed financial analysis on Indian IPOs, linking major financial events like economic crises, GDP growth, and interest rates on investment outcomes.
- Conducted data extraction and utilized libraries such as Pandas, NumPy, and **SciPy** for data cleaning, transformation, and **statistical analysis**, showcasing strong ability to interpret statistics and critical thinking.
- Leveraged SQL for querying & managing the dataset and **DAX (Data Analysis Expressions)** to create custom metrics and calculations and implemented **machine learning algorithms (predictive modelling)** to predict IPO performance and identify key investment trends.

Healthcare Workforce and Clinical Data Analysis

Jan 2024 – Mar 2024

- Developed **Key Performance Indicators (KPIs)** and crafted interactive **Tableau dashboard** to analyze healthcare workforce distribution and clinical staffing data, highlighting employment trends and workforce-to-patient ratios
- Scraped data using Selenium, analyzed large data sets and applied **statistical analysis on clinical data**, identifying key trends and correlations affecting healthcare outcomes
- Designed effective **PowerPoint presentations, prepared reports** and confidently presented findings to technical and non-technical audiences, demonstrating excellent written & verbal communication and interpersonal skills

AlwaysBlue

May 2023 – June 2023

- Developed web application with suit of features like Email Extractor, QR Code Generator, Code Comments Remover, Text to Speech and much more.
- Utilized **Java, React** and **Bootstrap** to create dynamic and responsive interfaces for seamless user experiences.

ACHIEVEMENTS & EXTRA CURRICULAR

- **HackerRank — Python - Gold Level (5 Stars)**
- Led **4–6 member cross-functional teams** in **3 out of 4 semesters** during my Master's program at the **Illinois Institute of Technology**, managing the **full software development lifecycle (SDLC)** for over **5 academic projects**, ensuring **100% on-time delivery** and alignment with course requirements.
- Designed and deployed **6+ software solutions** under key courses such as **Advanced Software Engineering Development**, **Software Project Management**, **Machine Learning**, and **Enterprise Web Application Development**, applying agile methodologies, using version control tools like **Git**, and driving **team collaboration and code quality**.