

Tithi Patel

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EDUCATION

Illinois Institute of Technology, Chicago

Aug 2024 – Present

Master of Computer Science with specialization in Business

Vellore Institute of Technology, Bhopal

Sept 2020 – May 2024

Bachelor of Technology in Computer Science

INTERNSHIP EXPERIENCE

Vrinsoft Technologies - Business Analyst Intern, Gujarat

Jan 2024 – May 2024

- Executed requirement analysis and created detail oriented flow diagrams, SRS documents, and proposal drafts, reducing project delivery time by 20%
- Facilitated effective communication channels between stakeholders and developers; maintained a robust alignment on specifications at 95%, which directly contributed to minimizing rework levels by one-third throughout the project's life cycle
- Tracked data trends using software analytics tools; identified key performance indicators for projects which improved stakeholder visibility into progress updates from weekly meetings to daily check-ins, ensuring alignment throughout development phases.

Qrious Tech Team - Frontend Developer Intern, Gujarat

June 2023 – Sept 2023

- Developed and deployed responsive interfaces using ReactJS, increasing page load speed by 25% and user engagement by 15%
- Created reusable modular components that optimized the software development workflow, resulting in a significant 40% reduction in code redundancy and enhancing overall team productivity during project cycles.
- Conducted usability testing, identifying and implementing improvements which resulted in a 10% increase in overall user satisfaction scores

PROJECTS

Analyzing Electric Vehicle (EV) Adoption Trends in Washington State

April 2025 – May 2025

- Analyzed EV adoption in Washington State using regression, ARIMA forecasting, and clustering to reveal growth trends and infrastructure gaps.
- Developed and validated predictive and clustering models, delivering insights on geographic, socioeconomic, and policy factors driving EV adoption.

Advanced Hotel Management System

Feb 2025 – Present

- Developing a responsive front-end using HTML, CSS, and JavaScript, and a back-end with Python (Flask) and MySQL for efficient data management and seamless user interaction
- Designing RESTful APIs with Flask to connect the front-end with MySQL, enabling smooth data retrieval, storage, and dynamic functionality
- Improving application performance by optimizing SQL queries, ensuring cross-browser compatibility, and reducing load times for a smoother user experience.

Machine Learning and NLP

Dec 2025 – Jan 2025

- Implemented core ML and NLP algorithms, including Naive Bayes (from scratch), Logistic Regression, and sentence probability models, to demonstrate text classification and prediction capabilities.
- Developed a basic word prediction language model using Python, scikit-learn, and NLP libraries (NLTK, spaCy), applying probabilistic methods for next-word prediction and sentence evaluation

SKILLS

- **Languages:** Python, R, Java, HTML, CSS, DAX, SQL, JavaScript
- **Tools/Technologies:** Jupyter Notebook, RStudio, Power BI, Tableau, Figma, GitHub, CI/CD, MS Excel, MS PowerPoint
- **Courses:** Introduction to AI, Computer Networks, Natural Language Processing, Data Preparation and Analysis, Strategic Management, Probability and Statistics
- **Libraries & Certifications:** NumPy, Pandas, Scikit-learn, Tkinter, Fundamentals of Data Analytics, Learning Data Analytics 1

CERTIFICATIONS

PwC Switzerland Power BI Job Simulation on Forage

Aug 2024 – Jan 2025

- Demonstrated expertise in data visualization through the creation of Power BI dashboards that effectively conveyed KPIs, showcasing the ability to respond to client requests with well-designed solutions.
- Compiled and shared key findings with engagement partners through clear and concise email reports, providing data-backed insights and practical recommendations.
- Examined HR data to track gender-related metrics, identified causes of executive-level gender gaps, and proposed actionable steps to improve diversity and inclusion.