DIVY PATEL

Email: dpatel21@mtu.edu | Phone: (248) 759-3973
LinkedIn: linkedin.com/in/divy-patel-1519bb1b9 **| GitHub:** github.com/Divy0409

EDUCATION

Michigan Technological University   **Jan 2024 - Dec 2025**
- **Master of Science, Data Science |**   GPA – 3.9
- **Certificate: AI for Business Information Systems**

Gujarat Technological University | L.J. Institute of Engineering and Technology   **Aug 2019 - April 2023**
- **Bachelor of Engineering, Information Technology |**   GPA - 3.9 / 4 (World Education Services Evaluated)

SKILLS

- **Programming**: Python, Java, R, Django, Node.js, React.js, HTML, CSS, PostgreSQL, MySQL, Qdrant
- **Machine Learning / Data Science:** Scikit-Learn, PyTorch, Pandas, NumPy, SciPy, Matplotlib, Seaborn, Transformers, Hugging Face, Ensemble Models, Stacking, Time-Series Forecasting
- **Data & Cloud Tools**: GitHub, Hugging Face Hub, AWS EC2, AWS RDS

PROJECTS

QuantCore | Team – 4 Members | Role – Researcher / Developer   **July 2025 – Present**
- Developing a website for personalized stock portfolios using historical data, market sentiment, risk indicators, and confidence indices.
- Built a working chatbot to assist investors with fundamental finance-related queries.
- Built stock-price prediction models using XGBoost, Neural Networks, and Stacking techniques, integrating both historical and sentiment features.

VangoFlex | Team – 7 Members | Role – Lead Software Developer   **Jan 2025 - April 2025**
- Built a full-stack platform for managing SQL-based image databases, hosted locally and on AWS RDS.
- Deployed the website using AWS EC2 and optimized PostgreSQL database architecture.
- Designed version control workflows and collaborative practices using GitHub.

PROFESSIONAL EXPERIENCE

Michigan Technological University | Research Assistant | Hybrid   **March 2024 – Present**
- Developed a user-friendly UI using Django and core logic for scraping and formatting data to create datasets, train, test, and evaluate Large Language Models (LLMs) using the Transformers library for non-technical users.
- Built a comprehensive finance website for planning stock market investments.
- Implemented user-friendly configuration options to allow data retrieval from various financial APIs and added forecasting features including Relative Strength Index, Moving Averages, and Oscillator Functions.

Tops Technologies | Data Analysis Intern | Remote   **March 2023 – March 2024**
- Contributed to the development of a data visualization platform to analyze quarterly profit and sales figures for a manufacturing business which led to a 5% reduction in stockouts and a 12% improvement in asset management.
- Gained hands-on experience with Excel, Power BI, machine learning, regression analysis, and data visualization through an intensive training program.

Ek Software | Backend Developer Intern | Ahmedabad, India   **March 2023 - Oct 2023**
- Developed a Python (Django) backend for a web portal to manage patients and physicians for pharmacies.
- Played a key role in the development of the company's first advanced chat system, significantly improving their technology stack.
- Designed and built a high-performance multitenant PostgreSQL database, improving website speed by 25% and reducing development time.

Tops Technologies | Java Developer Intern | Hybrid   **June 2022 - Dec 2022**
- Developed platforms including a student admission website and a Charity Food/Funding system using advanced Java frameworks (Spring Java and Hibernate).
- Utilizing advanced Java frameworks resulted in a 20% reduction in projected development time, while also ensuring consistency in coding standards.
- Built and managed efficient MySQL databases for each website, ensuring smooth storage and retrieval of data.