

# MANUSHI PATEL

Chicago, IL | (224) 370-2552 | [manushipatel520@gmail.com](mailto:manushipatel520@gmail.com) | [LinkedIn](#) | [Github](#) | [Portfolio](#)

## SUMMARY

---

Data and AI focused Computer Science graduate student at Illinois Institute of Technology (GPA 4.0) with experience designing ETL pipelines, analytics dashboards, and machine learning models that convert raw data into actionable insights. Experienced in Python, SQL, and cloud platforms to improve data quality, automate workflows, and support data-driven decision making. Proven ability to translate complex datasets into business value through analytics, predictive modeling, and scalable data solutions.

## EXPERIENCE

---

### Software Developer Intern (REMOTE)

JUN 2025 – PRESENT

Leap of Faith Tech., Libertyville, IL

- Designed and implemented ETL workflows integrating patient healthcare records into a structured dataset used for AI model training, improving data accessibility and pipeline efficiency by ~30%.
- Built automated preprocessing steps for clinical data normalization, improving data consistency and reducing manual data preparation time by 40%.
- Created automated testing workflows and test cases in Jira and mobile test environments, improving reliability of clinical patrol applications.
- Organized test documentation and automation pipelines, enabling faster regression testing and improved engineering productivity by 22%.

### Build Student Consultant, Bioinformatics

MAR 2025 – MAY 2025

The Build Fellowship by Open Avenues

- Analyzed genomic sequencing datasets using Python and BioPython libraries, processing FASTQ files and extracting quality metrics from DNA reads.
- Developed data visualizations using Matplotlib, enabling researchers to quickly detect sequencing anomalies and data quality issues.

### Data Analyst

MAY 2024 – JUN 2024

LearnTricks Edutech, Pune, Maharashtra, India

- Analyzed a large festive sales dataset to uncover purchase trends and customer behavior patterns, supporting strategic campaign planning.
- Identified and corrected missing values and outliers, improving data accuracy by 18%.
- Insights derived from the dashboard helped drive ~25% improvement in actionable business insights used for marketing strategy decisions.

### Research Intern

DEC 2023 – MAR 2024

Indian Space Research Organization, Ahmedabad, Gujarat, India

- Conducted literature review across 7 research studies on Transformer-based image enhancement models, identifying architectural improvements for satellite imaging pipelines.
- Presented research findings and implementation recommendations that improved overall experimentation efficiency by ~35%, achieving SSIM score of 0.7.

## PROJECT EXPERIENCE

---

### Data Visualization Project

DEC 2024

- Built a dynamic Power BI dashboard to analyze sales performance across multiple product segments.
- Implemented interactive filters, drill-downs, and KPI tracking, enabling stakeholders to identify revenue drivers and underperforming products.

### Stock Vision – Stock Price Predictor

JAN 2023 – MAR 2023

- Developed an LSTM-based time series forecasting model predicting stock prices with ~60% accuracy.
- Built and deployed a Streamlit web application processing real-time market data from 5 major companies, enabling interactive forecasting for users.

## SKILLS

---

- **Programming:** Python, R, SQL
- **Data Analysis & Visualization:** Pandas, NumPy, Statistical Analysis, Predictive Modeling, Regression, Classification Models, Excel Dashboards, Matplotlib, Tableau, Power BI
- **Database Management:** Relational Databases (e.g., MySQL, PostgreSQL)
- **Machine Learning:** Deep Learning, Transformers, Time Series Forecasting, Predictive Analytics, PyTorch
- **Data Engineering:** ETL Pipelines, Data Cleaning & normalization, Data Integration, Data Validation, Data Quality
- **Tools:** Git, Streamlit, Jupyter, Jira, Snowflake, AWS, GCP, Docker, Postman

## EDUCATION

---

Illinois Institute of Technology, Chicago, IL

AUG 2024 – PRESENT

### Masters, Computer Science, GPA 4/4

- *Relevant Coursework:* Computer Networks, Advanced Database Organization, Data Preparation & Analysis, Healthcare Informatics & AI, Machine Learning