

MANUSHI PATEL

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EDUCATION

Illinois Institute of Technology, Chicago, IL

AUG 2024 – PRESENT

Masters, Computer Science, GPA 4/4

- *Relevant Coursework:* Data Preparation & Analysis, Healthcare Informatics & AI, Machine Learning, Design and Analysis of Algorithms, Intro to Information Security

Dharmsinh Desai University, Nadiad, Gujarat, India

AUG 2020 – MAY 2024

Bachelor of Technology, Computer Engineering, GPA 4/4

- *Relevant Coursework:* Data Preparation & Analysis, Healthcare Informatics & AI, Machine Learning, Design and Analysis of Algorithms, Intro to Information Security

SKILLS

- **Languages:** Python | R | SQL | C++ | HTML | CSS | JavaScript | T-SQL
- **Data Analysis Tools:** Microsoft Excel | Power BI | Tableau
- **Machine Learning:** Transformers | Predictive Analytics | Neural Networks | Generative AI | NLP | LLM
- **Technical Skills:** Statistical Analysis | GPU Computing | PyTorch | MS Office Suite | Relational Databases | Github | Colab & Jupyter Notebooks | Data Pipelines
- **Soft Skills:** Detail-oriented | Problem-Solving | Leadership | Analytical skills | Time-Management

EXPERIENCE

Software Developer Intern (REMOTE)

JUN 2025 – PRESENT

Leap of Faith Tech., Libertyville, IL

- TheraCareAI (Patrol App Testing): Set up Android/iOS test environments, debugged code, and created automated patrol test cases in Jira to ensure app reliability and organized test flows.
- iEMR (Data ETL Pipeline): Designed ETL workflows to integrate patient data, mapping input-output fields and preparing structured datasets for AI model training.

Data Analyst

MAY 2024 – JUN 2024

LearnTricks Edutech, Pune, Maharashtra, India

- Analyzed a complex festive sale dataset and designed a dashboard, identifying key patterns and trends, resulting in a 25% enhancement in actionable insights.
- Resolved data quality issues, leading to an 18% improvement in accuracy by fixing missing values and outliers.

Research Intern

DEC 2023 – MAR 2024

Indian Space Research Organization, Ahmedabad, Gujarat, India

- Compiled and presented findings from 7 in-depth studies on Transformer applications in image enhancement, insights led to refining existing processes and increased project efficiency by 35%.
- Integrated new algorithms into the existing codebase of 'DDT – Dual-branch De-formable Transformer', optimizing performance, resulting in faster model training times of up to one hour per iteration without compromising accuracy and attaining an SSIM(Structural Similarity Index Measure) of 0.7 in less than 4 months.

PROJECT EXPERIENCE

OMOPify - Transforming Health data to OMOP

MAR 2025 – MAY 2025

- Data Transformation Pipeline: Converted FHIR and Synthea datasets into the OMOP Common Data Model to enable standardized clinical research and interoperability.
- Database & Analytics Integration: Linked PostgreSQL with OHDSI ATLAS/WebAPI using R to support cohort analysis and real-world evidence generation.

Data Visualization Project

MAY 2024 – JUN 2024

- Designed and developed a dynamic Power BI dashboard to visualize and analyze a company's sales performance.
- Optimized dashboard usability by implementing interactive features such as drill-downs, slicers, and dynamic filters, enabling stakeholders to customize views for actionable insights.

Stock Vision – Stock Price Predictor

JAN 2023 – MAR 2023

- Developed and deployed a dynamic LSTM model for stock price time series forecasting, obtaining an accuracy of 60% within 3 months of implementation, resulting in a 20% reduction in prediction error compared to baseline models.
- Built and deployed a web application using Streamlit, processing real-time stock market data from 5 companies daily

CO-CURRICULAR AND ACHIEVEMENTS

Social Worker – “Kasi Foundation”

- Spearheaded 24 community outreach events from 2022 to 2024, distributing food and clothes to over 1,500 individuals.
- Managed educational initiatives for 300 underprivileged children and guided 18 menstrual hygiene training sessions for 500 women, spreading social awareness.