

DHRUVIK MALAVIYA

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EDUCATION

DePaul University, Chicago, IL <i>Master of Science in Data Science (Computational Methods)</i>	Expected June 2026 3.9/4.0
Aditya Silver Oak Institute of Technology, Ahmedabad, India <i>Bachelor of Technology in Computer Engineering</i>	April 2024 3.89/4.0

TECHNICAL SKILLS

Languages: Python, R, HTML, CSS
Libraries/Frameworks: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Flask
Databases: MySQL, SQLite
Tools & Environments: Jupyter, Google Colab, Git, VS Code, Tableau

PROJECTS

Predictive Birth Weight Analysis – DePaul University	Sep 2024 – Nov 2024
<ul style="list-style-type: none">Analyzed birth weight data of over 1M+ babies to explore gender-based differences.Used T-tests and 95% confidence intervals to evaluate mean differences.Used tools are R, ggplot2, dplyr, t.test(), summary statisticsDiscovered statistically significant differences, with female babies having lower average birth weights.	
Ms Manager – Telegram Reminder Bot (https://github.com/DPmalaviya/Telegram-Reminder-Bot-with-Gemini-pro)	Dec 2023
<ul style="list-style-type: none">Developed a smart reminder bot in Python with Gemini-Pro API and Telegram Bot API integration.Handled 250+ test interactions with dynamic input/output flows during testing and iteration.Reduced daily reminder-setting effort by an estimated 70% compared to manual input.Integrated real-time user input with API-driven reminders to automate task tracking.	
Jarvis – Python-Based Virtual Assistant (https://github.com/DPmalaviya/Jarvis---Basic-AI---Python)	May 2023
<ul style="list-style-type: none">Developed a voice-activated assistant with 30+ automated commands for real-world tasks.Included unique activation features like clap detection and wake-word recognition ("Jarvis").Enabled tasks like chatting, web browsing, WhatsApp messaging.	

EXPERIENCE

Graduate Assistant – DePaul University – CDM Tutor	March 2025 – Present
<ul style="list-style-type: none">Translated technical concepts into actionable, digestible outputs for diverse audiences.Mentored over 100 students in Python and Java programming, focusing on core concepts such as data structures and data visualization to improve student comprehension and project quality.Facilitated weekly tutoring sessions to debug complex code and explain algorithmic logic, resulting in enhanced technical proficiency for undergraduate and graduate students.Developed visual aids and practical coding demonstrations to simplify abstract data structure concepts, streamlining the learning process for diverse student groups.	
Research Volunteer – DePaul University – NLP4CancerPrevention	January 2025 – Present
<ul style="list-style-type: none">Applied sentiment analysis and topic modeling to 400+ narratives and created 50+ customized visualizations to identify community-specific health barriers for public health research.Evaluated 3+ state-of-the-art LLMs to identify the most accurate architecture for narrative extraction.Developed and refined 20+ iterative prompt templates, improving data extraction accuracy and reducing human-labeling discrepancies.	
Project Intern – BISAG-N, Gandhinagar, India	Jul 2022
<ul style="list-style-type: none">Processed and analyzed a dataset of 5,000+ news articles to detect misinformation patterns using NLP techniques.Built and evaluated classification models using TensorFlow and Scikit-learn with over 85% accuracy.Collaborated with a team of 5+ senior engineers, applying real-world AI methods to enhance digital media credibility analysis.	