

# Aryan Patel

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## EDUCATION

University of Notre Dame | Lilly Scholar | Notre Dame, IN

August 2024 – Present

Bachelor of Science

GPA: 4.0/4.0

Major: Computer Science | Dean's List

## TECHNICAL AND LANGUAGE SKILLS

**Technical:** Python, C, Pandas, Flask, MATLAB, SQL, JavaScript, HTML, CSS, Tableau, SolidWorks, Microsoft 365 Suite.

**Language:** Gujarati (conversational), Hindi (conversational).

## EXPERIENCE

Aunalytics | South Bend, IN

October 2025 – Present

Data Engineering Intern

- Map, transform, and validate client data from diverse warehouse systems into a standardized schema to support analytics and smart feature development by downstream data science teams.
- Collaborate with engineers to troubleshoot pipeline issues, optimize data workflows, and ensure reliable integration into production environments.

Scam Research with Dr. Yangfang Ye | University of Notre Dame, Notre Dame, IN

May 2025 – July 2025

Research Assistant

- Developed an autonomous machine learning pipeline in **Python** using natural language processing (NLP) techniques and a multi-layer perceptron (MLP) model to detect psychological techniques (PTs) employed in scam messages.
- Integrated the pipeline into a local full-stack web application using **Flask (Python), HTML, CSS, and JavaScript**, enabling users to input a scam message and receive a detailed breakdown of the PTs used within the message.
- Built a training and validation dataset by manually labeling PTs contained in **760** real-world scam messages.

84.51° | Data Club of Notre Dame, Notre Dame, IN

January 2025 – April 2025

Team Member

- Processed and analyzed over **20 million** lines of raw data using **Pandas** for data cleaning and preparation.
- Developed a **Tableau** dashboard analyzing Kroger's sales and customer segments in collaboration with 10 teammates.
- Built dashboard components to analyze coupon campaigns, providing insights into their influence on sales trends.

Amazon – Student International Business Council STEM | Notre Dame, IN

January 2025 – April 2025

Team Member

- Conducted market analysis to identify weaknesses in current implementation of Amazon Prime Student membership.
- Researched and advised on implementing lifestyle imaging via **Generative AI** to raise advertisement conversion rates.
- Delivered presentation at headquarters to more than 100 Amazon employees, including the Head of Prime Marketing.

Logansport Savings Bank | Logansport, IN

June 2024 – January 2025

Intern

- Generated reports of 14 different types of loans and deposits utilizing **Microsoft Excel**, created visualizations on the bank's margin trends that allowed the bank to prioritize its marketing strategy towards profitable accounts.
- Developed a curriculum of 12 financial learning modules using Microsoft PowerPoint for the bank to educate their high school junior board members on financial literacy that encouraged students to save 25% of their income.

## PROJECTS

Principles of Computing | University of Notre Dame

March 2025 – April 2025

- Designed and constructed an interactive [website](#) utilizing **HTML/CSS** to display various **Python**-based visualizations on global life expectancy trends (2000-2015), enabling users to explore insights on health outcomes across continents.

Engineering Computing | University of Notre Dame

March 2025 – April 2025

- Designed and programmed an interactive **MATLAB** application capable of analyzing and displaying statistics and visuals on international music trends from a dataset containing over **60,000** data points.

Engineering Design | University of Notre Dame

August 2024 – December 2024

- Engineered and implemented an AQI measurement device with Arduino and a custom 3D-printed housing to collect sensor data and apply Excel-based analysis to evaluate environmental air quality as part of a team of four.