

Arya Sharma

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EDUCATION

Michigan State University

Bachelor of Science in Computational Data Science

2027

GPA: 3.8

Relevant Coursework: Data Structures and Algorithms, Intro to Programming Python, Intro to Programming C++, Introduction to Data Science, Probability and Statistics for Data Science, Computational Modeling and Data Analysis I and II

EXPERIENCE

SWE Program Manager Intern (Incoming) | Apple

Present

- Collaborating with cross-functional teams to drive the development and execution of cutting-edge spatial computing experiences for Apple Vision Pro, integrating hardware, software, and human interface design.
- Managing complex project timelines, engineering validation, and cross-team communication to ensure timely delivery of innovative features that redefine the future of immersive technology.

Founder | ShelterSync

Present

- Conducted market research by engaging with multiple local churches to assess food donation challenges, validating the need for a streamlined platform to connect donors with homeless shelters.
- Developed a full-stack web application using React with TypeScript and Vite for the frontend, and Node.js with Express and MongoDB for the backend, implementing a real-time food donation system connecting restaurants with homeless shelters

Data Science Intern | MIDI Lab

Present

- Utilized data analytics and radiomics with Henry Ford Health to predict post-operative outcomes from pre-operative ultrasound images in rTSA patients.
- Extracted and visualized radiomic features from CT images using pyradiomics, SimpleITK, and matplotlib.

Data Science Intern | Medpace

Jan 2025 - April 2025

- Developed interactive R Shiny applications and custom data visualizations using SQL (Snowflake), R, and Power BI to analyze clinical trial data for client proposals.
- Applied graph theory and clustering techniques to analyze clinical site relationships, optimizing site selection.

Machine Learning Intern(Lead) | Idaho National Laboratory

July 2024 - September 2024

- Processed 88 EQPs corresponding to 933 drawings (equipment qualification data and CAD drawings), developing ML models and OCR systems to automate EQP generation and extract structured data.
- Built a LLaMA-based model to automate equipment qualification procedure generation, streamlining documentation workflows.

PROJECTS

Customer Personality Analysis

November 2024

- Developed a model to understand customer purchasing behavior by analyzing their demographic and behavioral attributes to identify patterns that influence buying decisions, support targeted marketing strategies, and improve personalized recommendations.

Stock Price Predictor

October 2024

- Developed a model to predict short-term price movements for Meta, Apple, Amazon, Netflix, and Google stocks based on historical price patterns, volume, and volatility indicators.

AI Visual Journal

April 2024

- AI and Digital Storytelling: Developed a visual journal application using OpenAI's API, transforming user journal entries into AI-generated images, creating a unique digital storytelling platform.

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML/CSS, Java, C++, R

Libraries/Frameworks: Pytorch, pandas, Matplotlib, scikit-learn, numpy, OpenCV

Other: Unix/Linux, Git