

Karan Choudhary

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EDUCATION

Michigan State University

Bachelor of Science, Computer Science, GPA: 3.97 / 4.0

East Lansing, MI

August 2022 - May 2026

EXPERIENCE

IT Intern

Steelcase

May 2025 – August 2025

Grand Rapids, MI

- Utilized Databricks and Tableau for data analysis and visualization, transforming complex datasets into clear, accessible insights for everyday users
- Collaborated cross-functionally with data science and data engineering teams to build production-ready tables and streamline code organization for deployment
- Leveraged Scikit-learn for machine learning technique, integrated OpenAI API and utilized PySpark and Pandas for efficient data aggregation and transformation

Software Engineering Fellow

Headstarter

August 2024 – September 2024

Remote

- Developed 5 projects using Next.js, OpenAI, Pinecone, and Stripe API, integrating various technologies
- Mentored by top industry professionals from Amazon, Bloomberg, and Capital One on Agile methodologies, CI/CD processes, Git version control, and microservice architectures

AI Intern

Sports Media

July 2024 – September 2024

Remote

- Utilized machine learning techniques in an audio processing project to enhance real-time voice communication through reduced latency and improved audio quality

PROJECTS

Movie Recommender Website | Python, Streamlit, Pickle, Scikit-learn, NumPy

May 2024 – June 2024

- Constructed a movie recommender system wielding Streamlit, enhancing deployment efficiency and accomplishing a 93% user satisfaction rate in recommendation relevance
- Administered Scikit-Learn's cosine similarity and TfidfVectorizer for feature vectorization in movie recommendation system reducing computational runtime by 63%

NBA Game Predictor | Python, Pandas, BeautifulSoup, Scikit-learn

April 2024 – April 2024

- Designed and created a Python-based NBA game predictor actualizing core prediction algorithms and utilizing data analysis skills such as manipulating game statistics from CSV files by web-scraping data, leading to a 40% increase in prediction accuracy
- Leveraged machine learning techniques to formulate an NBA game predictor, encapsulating prediction logic into various modules for increased code scalability, resulting in a 30% improvement in model performance

Parking Lot Predictor | Python, OpenCV, Pickle, NumPy

February 2024 – February 2024

- Architected an automated parking lot monitoring system incorporating Python and OpenCV, discerning between occupied and vacant parking spaces through analysis of video feeds resulting in greater accuracy by 35%
- Instituted OpenCV-based system for parking space detection and color-coded marking, boosting parking management efficiency by 47%

Personal Portfolio Website | HTML, CSS

February 2024 – February 2024

- Engineered a visually captivating personal portfolio website employing HTML and CSS, highlighting skills, projects, and achievements in an engaging manner
- Optimized user experience by enacting responsive design techniques ensuring cross-device compatibility

TECHNICAL SKILLS & INVOLVEMENT

Languages: Python, C, C++, SQL, HTML, CSS, JavaScript

Organizations: EV Scholars, MSU AI Club

Developer Tools: Git, GitHub, AWS, Linux, Databricks, Tableau, Azure DevOps, Postman

Libraries: Pandas, NumPy, Scikit-learn, Pickle, Matplotlib, OpenCV, Requests, BeautifulSoup, Keras, PySpark, Tqdm, Pydantic, JSON, OpenAI