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Mridul Sharma

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About Me

As a versatile data scientist with a unique blend of aerospace engineering and machine learning expertise, I bring a multidisciplinary approach to solving complex problems across diverse domains. My portfolio spans from developing CNN-based traffic sign recognition systems to crafting NLP models for financial sentiment analysis, demonstrating proficiency in both computer vision and financial engineering. I've architected AI tutoring chatbots using cutting-edge LLM techniques, implemented hybrid recommendation systems, and optimized ML models for edge devices, showcasing my ability to deliver full-stack AI applications.

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Skills

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Projects

All

Deep Learning

NLP

Traditional ML

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German Traffic Sign Recognition

Implemented a CNN using modified LeNet architecture, achieving 98.7% accuracy. Developed a Streamlit web app and real-time webcam recognition system.

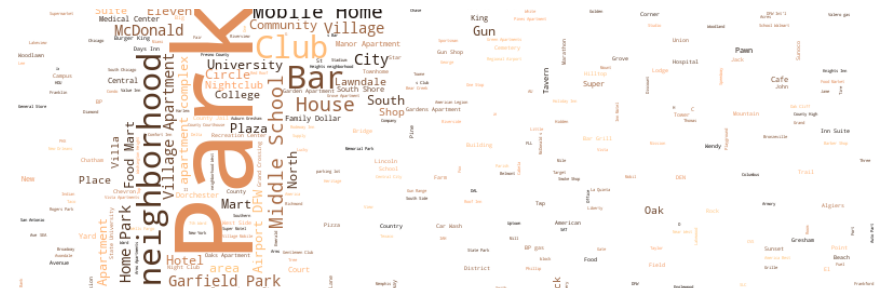
[View on GitHub](#)



Hot Dog or Not Hot Dog Classifier

Developed a transfer learning model using InceptionV3, achieving 95.25% accuracy. Created a Streamlit app for real-time classification.

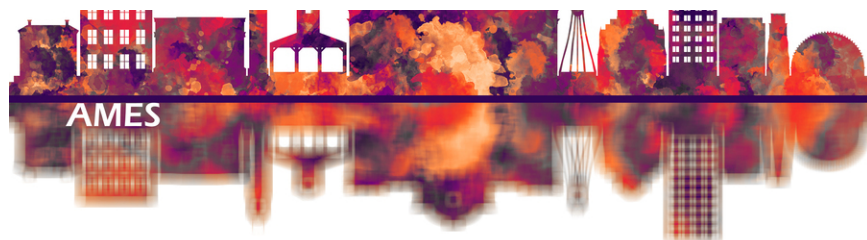
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Gun Violence EDA and Predictive Modeling

Analyzed gun violence data from 2013-2018, identifying key factors contributing to incidents and developing predictive models.

[View on GitHub](#)

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Ames Housing Price Prediction

Developed a regression model for housing prices in Ames, Iowa, achieving an RMSE of \$27,000 in a Kaggle competition.

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Experience

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General Assembly

May 2024 - September 2024

Completed intensive 420+ hour program, gaining proficiency in Python, SQL, R, and various data science techniques.

LLM Prompt Engineer



Ribit

September 2023 - April 2024

Engineered prompts for chatbot applications using GPT-3.5 and GPT-4, implementing zero-shot and few-shot learning techniques.



Machine Learning Engineer

Alison

November 2022 - August 2023

Architected AI tutoring chatbot agents and developed OCR pipelines for content summarization.

Artificial Intelligence Specialist



Upwork

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including property analysis tools and recommendation systems.



Machine Learning Specialist

Plentari Financial Services

April 2019 - June 2020

Deployed face-swapping ML algorithms and optimized model performance for mobile deployment.

Education

University of Miami

B.S. in Aerospace Engineering

January 2016 - December 2018

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B.S. in Aerospace Engineering
January 2011 - December 2014

Interests & Activities

- Undergraduate Mentor, Institute for Ultrafast Spectroscopy and Lasers (IUSL), City College of New York
- 10+ years experience coaching and participating in New York Junior Tennis League (NYJTL)
- Perfecting fashion and architectural street photography skills in the NYC metropolitan area since 2019

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