Madhu Siddharth Suthagar

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SUMMARY

Data Science grad student with expertise in the ML workflow, from data preprocessing to model building, evaluation, and monitoring. Strong foundation in mathematics (including Linear Algebra, Calculus, Probability, and Statistics) and exceptional communication skills, thriving in team and individual settings.

EDUCATION

M.A.S Data Science   May 2026
Illinois Institute of Technology - GPA - 4.0

B.Tech Information Technology   April 2024
Coimbatore Institute of Technology - GPA - 3.66

PATENTS AND CERTIFICATIONS

IBM Machine Learning Specialist   August 2025

AWS Certified Cloud Practitioner   June 2025

IBM Data Science Professional certificate   April 2023

Google Data Analytics certificate   May 2022

SKILLS

Tools - Google Cloud Platform, PostgreSQL, Tableau, IBM Watson Studio, Excel

Packages - Pandas, Numpy, PyTorch, Tensorflow, Plotly, Dash, Seaborn, Matplotlib, Scikit learn, nltk, keras

Programming Languages - Python, R, C, C++, Java, SQL

PROJECTS

Galaxy Explorer (Illinois Institute of Technology)   May 2025 - July 2025

Developed a star-gazing app showing visible stars based on location, direction, and viewing angle.
Created a project to visualize historical Earth events from distant stars' perspectives using light-travel time.
Integrated astronomical calculations and geospatial data for accurate, interactive sky-time simulations.

Alzheimer's Prediction (Illinois Institute of Technology)   January 2025 - April 2025

Initiated an ML pipeline leveraging transfer learning with ResNet to classify Alzheimer's stages from MRI and GANs to generate personalized images predicting future stages, utilizing deep convolutional neural networks and optimizing Binary Cross Entropy loss (0.38 for discriminator, 3.52 for generator).

Traffic Analysis (Coimbatore Institute of Technology)   January 2024 - April 2024

Developed a 5-minute interval traffic predictor for San Francisco with a Random Forest Regressor on the Caltrans dataset (R^2: 0.87). Integrated web scraping for real-time news updates and implemented a custom-weighted Dijkstra algorithm for optimal route calculation, visualized using Folium maps.

INTERNSHIP EXPERIENCE

Database Intern   July 2022 - August 2022
Brillersys, India

Architected scalable PostgreSQL hospital databases for high-volume transactions, ensuring consistency.
Enhanced functionality by 15% through functions and triggers, collaborating with the team.

AI Intern   February 2021 - March 2021
Smartknower, India

Implemented CNN, ANN, and image processing techniques to develop a Fashion MNIST classifier as a mini project. Collaborated with a team to build an image classifier using ImageNet, VGG16, and transfer learning.