

Kirtana Sridharan

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[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

EDUCATION

Master of Science in Computer Science, Stevens Institute of Technology, NJ

09/2022-05/2024

GPA: 3.89

Bachelor of Engineering in Information Science & Engineering, Visvesvaraya Technological University, India

08/2018 – 07/2022

Relevant Coursework: Data Structures and Algorithms, Natural Language Processing, Mathematical Foundations of Machine Learning, Knowledge Discovery and Data Mining, Database Management Systems, Foundations of Financial Data Science, Marketing Analytics

SKILLS

Programming Languages: Python, R, SQL, HTML, CSS, JavaScript, JSON

Domain and Technologies: Machine Learning, Data Visualisation, Data Analytics, Data Mining

Tools and Frameworks: Jupyter Notebook, Tableau, MS Office, Pandas, Numpy, AWS, Matplotlib, MS Office, Excel

PROJECTS

Enhancing Scalability of Recommender Systems (IIT Chennai, India)

Aug 2023-Present

- Pioneered research optimizing Recommender Systems, achieving a 32.08% accuracy boost and notable reductions in GPU power consumption (up to 66.67%). Emphasized minimizing latency and computation time while upholding standard metrics.

Project Solar

March 2023-May 2023

- Conceptualized and developed a centralized project management portal for a local solar energy initiative, seamlessly connecting expert engineers, vendors, sales, engineering, and management teams.

LUNA – Lung Nodule Analysis

May 2022 – June 2022

- Developed a custom Convolutional Neural Network (CNN) to detect and classify tumors, achieving an accuracy rate of 83.29%.
- Implemented a modified U-net model for accurate segmentation, resulting in an accuracy rate of 66.20%.
- Created a user-friendly web application enabling doctors and specialists to conveniently access segmented lung tumor images from CT scans.
- Recognized with the Best Project award in the Computer Vision domain by the department of Information Science.

Twitter Airline Reviews Sentiment Analysis

May 2020 - May 2020

- Developed and implemented a shallow neural network to perform sentiment analysis on Twitter Airline Reviews for 10 leading US airlines.
- Achieved accuracy of the model was 86%, enabling the identification of areas of improvement for customer service, leading to enhanced brand perception and increased customer satisfaction.

Occupancy Detection

March 2020-March 2020

- Developed predictive models to determine the occupation of an office room based on environmental factors.
- Applied logistic regression and neural networks to achieve 95-98% accuracy in predicting office room occupation, optimizing resource use and enhancing organizational efficiency.

PROFESSIONAL EXPERIENCE

Programmer Analyst Intern, Cognizant, Bengaluru, India

03/2022 – 06/2022

- Participated in a comprehensive learning program focused on AWS and Spark technologies.
- Acquired practical knowledge and skills through in-depth training sessions.

ML Intern, NASTECH, Bengaluru, India

10/2021 – 11/2021

- Completed comprehensive training in Microsoft Azure cloud computing services, acquiring practical expertise in cloud-based solutions.
- Utilized deep learning and image processing techniques to develop a real-time face mask detection system and achieved an accuracy of 92%.

CERTIFICATIONS AND BADGES

- AWS Cloud Quest: Cloud Practitioner- [Badge](#)
- Machine Learning Foundations Accelerator, Speckbit Academy, Bangalore, May 2020.
- Introduction to HTML, CSS, JavaScript, University of Michigan, Coursera, July 2020.
- Introduction to Structured Query Language, University of Michigan, Coursera, Oct 2020

LEADERSHIP AND COMMUNITY ENGAGEMENT

- Graduate Peer Leader, Stevens Institute of Technology** – Mentored new graduate students, offering guidance and support on their academic journeys.
- Charter Member of Rotaract Club of Bangalore Midtown (RaCBM)**
- Co-chair of the event "Orange the Globe: End Violence Against Women"** – Held by RaCBM
- Organizer and Coordinator of the 24th edition of 'Durga Listens'**, RNS Institute of Technology, Bangalore