Kirtana Sridharan

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EDUCATION

Master of Science in Computer Science, Stevens Institute of Technology, NJ **09/2022-05/2024**
GPA: 3.89
Relevant Courses: Mathematical Foundations of Machine Learning, Knowledge Discovery and Data Mining, Database Management Systems, Foundations of Financial Data Science, Data Visualization, Marketing Analytics
Bachelor of Engineering in Information Science & Engineering, Visvesvaraya Technological University, India **08/2018 – 07/2022**
Relevant Courses: Data Structures and Algorithms, Object Oriented Concepts, Operating Systems, Data mining and Data Warehousing, Natural Language Processing

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, Git, Microsoft Azure, AWS, Matplotlib

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%.

PROJECTS

Enhancing Scalability of Recommender Systems *(IIT Chennai, India)*

- 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. Offered key insights on leveraging Edge Computing for enhanced model performance.

Project Solar

- 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

- 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 that enables 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

- 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

- Developed predictive models to determine the occupation of an office room based on environmental factors.
- Leveraged logistic regression and neural networks to build two separate models, achieving accuracy rates of 95-98%. This enabled more efficient use of office space and resources, resulting in cost savings and improved productivity for the organization.

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 "Orange the Globe: End Violence Against Women" –** Held by RaCBM in honor of the International Day for the Elimination of Violence Against Women
- **Organizer and Coordinator of the 24th edition of 'Durga Listens'**, RNS Institute of Technology, Bangalore