

SAI SHIRINI PRATHIGADAPA

+1 716-275-9094 saishiri@buffalo.edu Sai Shirini SaiShirini3

Summary

Highly analytical individual with strong apt for learning and collaborative skills. Looking forward to a challenging career in data science field in order to polish and utilize my knowledge and skills for personal growth and of organization

Education

University at Buffalo, The State University of New York

Master of Science in Data Science

Expected December 2024

3.83/4 (current)

Mahindra Ecole Centrale, Telangana

Bachelors of Technology in Electrical and Electronics Engineering

GPA: 8.35/10

Skills

Languages: Python, R, SQL, Scala (basics)

Machine Learning: Regression, Classification, Clustering, Feature selection, Decision tree, Random Forest

Deep Learning: Feed Forward Neural Networks, CNN, RNN, LSTM, GRU, Transformers, GAN

Frameworks: Numpy, Pandas, Matplotlib, Scikit-learn, Tensorflow, PyTorch, NLTK, OpenCV

Data science: Data Preprocessing, Data Mining, Data Wrangling, Exploratory Data Analysis, NLP, CV

Others: PowerBI, Matlab, RStudio, VSCode, Colab, Jupyter, MySQL, PostgreSQL, Hadoop, Spark

Soft Skills: Fast learner, Time management, Problem solving, Team player, Optimistic, Communication, Leadership

Research Experience

University at Buffalo

Research Assistant

Jan 2024

Buffalo, New York

- Currently working on PyTorch-based neural network models for precise action spotting
- Using advanced architectures and temporal modeling techniques to enhance model accuracy

IIT Palakkad

Research Aide

May 2023 – July 2023

Kerala

- Research work on Justifiable CNN and Grad-CAM
- Implemented J-CNN model for explainability in CNN, achieved precision 0.84 in a binary classification task

Projects

VIDEO CLASSIFICATION ON UCF-101 | *Python, DL, CNN, LSTM, Transformers, TensorFlow, OpenCV*

- Built a deep learning model to predict action labels of videos from UCF-101 dataset
- Operated different key frame extraction methods

TWITTER SENTIMENT ANALYSIS | *Python, TensorFlow, DL, LSTM, Natural Language Processing*

- Conducted sentiment analysis on the Sentiment140 dataset using neural networks
- Achieved accuracy of 0.769 using Bidirectional LSTM

COVID-19 PREDICTION | *Python, Machine Learning, Data preprocessing, Feature reduction and extraction, Scikit-learn*

- Solving a regression problem by machine learning algorithms to predict rise in covid cases
- Used various regression models and achieved 88% accuracy

IMAGE PROCESSING | *Matlab, Optimization*

- Focused on learning optimized partial differential equation (PDE) models for image filtering
- Used training techniques to optimize parameters of a nonlinear diffusion model for image denoising

Leadership and Volunteer Experience

Volunteer | *IIT Palakkad*

May 2023 – July 2023

- Volunteered at helpdesk for female freshers at IIT Pkd for JEE adv students

Placement Coordinator | *IIT Palakkad*

February 2023 – June 2023

- Led as Career Development Center Coordinator for M.Tech DS'22

Grader | *IIT Palakkad*

February 2023 – June 2023

- Worked as a grader, compiling and assessing of class assignments for a student cohort of 150s

Achievements

National Rank: Secured All India Rank 77 in GATE Mathematics'22

National Rank: Secured All India Rank 554 in JAM Mathematics'22

Scholarship : Received Rs.1 lakh as merit scholar ship from Mahindra Ecole Centrale in 2018