

KIRAN THYLOOR SHIVU
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Experience

Research Assistant: 2023 - present: Currently, I am working as a research Assistant in computer science department of Old Dominion University. Here I am trying to integrate Dask and MPI for qiskit's quantum hadamard edge detection. I am about to publish a paper about the same subject.

Data analyst: Software technology group international Ltd: 2019-2021: Proven data analyst with 2 years of experience in mining, interpreting and presenting large datasets to improve spend efficiency across organizations. Led the implementation of new data analysis system and achieved a 15% reduction in errors and 20% increase in data accuracy. Adept in collaborating with cross-functional teams and delivering projects on-time and on-budget.

Internship: Software technology group international Ltd: 1 month

I made a valuable contribution to key programs at STG international Ltd using Various Internet of things tools and technology and worked on real time IoT application based project.

Graduate teaching Assistant: 2022

Currently I am working as Graduate teaching assistant at Old Dominion University.

Technical skills

- Programming experience in Python, C and R.
- Experience with Machine learning algorithms such as XGboost, CNN, RNN, Tensorflow, Pytorch.
- Good knowledge on Exploratory Data Analysis (EDA)
- Knowledge on modern data platform components such as the Hadoop, Hive, Pig, Spark, Python and Scala
- Data visualization experience using Tableau and Excel.
- Database Handling Experience through MySQL.
- Web Application Development using HTML, CSS, JavaScript, and PHP.

Academia

- M.S. in Computer Science, Old Dominion University (2021 – present), Current GPA = 3.96
- B.E. Computer Science and Engineering, Jyothy Institute of Technology affiliated to Visvesvaraya Technological University (Belgaum approved by AICTE- New Delhi (2015-2019))

Projects and Publications

Final Year Project: [Abnormal Event Detection in Surveillance systems](#).

In this paper, we propose a way to train the neural network through abnormal, anomalous and normal videos with clipping them as video segments and extracting the features. The anomaly detecting model trained, predicts probability scores for the testing video segments.

Object Tracker: - Developed and implemented an object tracker on Android that would track a predefined shape in real time

Behavior Analysis Using Visual Data: Worked on modeling human behavioral patterns and predicting the mental state of a person using visual and vocal cues. Built computer vision and machine learning algorithms for analysis and prediction.

Multiclass Object Recognition: Worked on multiclass object recognition using HMAX (biologically inspired features)

Handwritten Digit Recognition: Developed and implemented a pattern classification system for handwritten digits using NIST database