EDWIN JOSE

Quantum Machine Learning Researcher

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EDUCATION

Western Michigan University, 2022 – present | USA
Ph.D. Student at the Department of Computer Science

Cochin University of Science and Technology, 2018 – 2020 | Kerala
Master of Science, Electronic Science
CGPA: 9.5/10 (University First Rank Holder)

Christ University, Jun 2015 – Jun 2018 | India
Bachelor of Science, Physics, Mathematics, Electronics
(Triple Major) CGPA: 9.36/10

SKILLS

Python
For Data Visualization, and preprocessing using scikit learn, matplotlib.

TensorFlow
Package in python for machine learning and Deep Learning.

Matlab, Scilab, Maxima
Numerical methods and solving differential equations.

Qiskit
Package in python for Quantum Machine Learning.

Latex
A documentation tool

PROFESSIONAL EXPERIENCE

Western Michigan University, *Teaching Assistant* Aug 2022 – present | Michigan, USA
- Assist Students and teach students programming in C Lab. Subject to teach CS1200 Programming in C for Engineers.
- Evaluation and grading of assignments and quizzes are also part of the Job.

Cochin University

Research Fellow: Sony Consultancy Aug 2021 – Dec 2021 | India
- Project: In Situ Intelligent Passive Acoustic Sensor Network For Monitoring Marine Habitats. Developed machine learning models for acoustic classification for edge devices.

Junior Research Fellow Oct 2020 – Aug 2021 | India
- Works on concepts: Time Series Analysis and Power Consumption Anomaly Detection. Machine Learning and Statistical approaches in time series analysis.

MyWays Life Layouts Pvt Ltd, *Machine Learning Interns* Dec 2019 – Jul 2020 | India
- Developed an Internship and Career Recommendation System. Concepts Used: Recommendation systems, NLP, Data Analysis, AWS, Machine Learning model optimization, and production.

PROJECTS

Development and Evaluation of an Information Retrieval System, *Western Michigan University* 2023
Created an Information retrieval system on Terrier and evaluated its various configurations.

Censorship Detection And Analytics, 2022
Indian Institute of Technology Palakkad
Created a Chinese Text Censorship Classifier. Analyzed the Type of Topics that are censored by the Government. Proposed and Develop a Censorship Bypassing Algorithm.

Seminar On Deep Video Analytics • CUSAT 2019

A detailed review of deep video analytics, including the study on the basic neural network, convolutional neural networks, restricted Boltzmann machines, RNN, LSTM, and generative Adversarial Networks. Latest trends and history of video analytics, and also a case study in the domain of human action recognition.

Face Recognition based Surveillance System Using FaceNet and MTCNN on Jetson TX2 • CUSAT 2019

Implementation of an intelligent multi-camera Face Recognition-based surveillance system using FaceNet and MTCNN algorithm on Jetson TX2. The portable system tracks the suspects and adds their location to the database.

Crowd Behavior Analysis /Action Recognition using Convolutional Neural network (CNN) - Long short-term memory (LSTM) • CUSAT 2018

Implemented various methods of crowd behavior analysis using machine learning principles - CNN LSTM. And analyzed the performance of our network with the traditional methods. Concepts Used: CNN transfer Learning, LSTM, Awareness about Various CNN architecture.

RESEARCH INTERESTS

- Quantum Computing and Quantum Machine Learning
- Machine Learning, Deep Learning Time Series Analysis and Forecasting, IoT
- Hyper-parameter Optimization
- Natural Language Processing

PUBLICATIONS

Development and evaluation of a modular experiential learning curriculum for promoting AI readiness,

Education and Information Technologies (2023)

Kahvazadeh, Irene, et al. "Development and evaluation of a modular experiential learning curriculum for promoting AI readiness." Education and Information Technologies (2023): 1-15.

Detecting Anomalies in Power Consumption of an Internet of Things Network Using Statistical Techniques, 2022

Jose, Edwin, Ajai John Chemmanam, Bijoy A. Jose, and Asif Mooppan

Artificial Intelligence Driven Circuits and Systems, pp. 153-164. Springer, Singapore, 2022

Face recognition based surveillance system using facenet and mtcnn on jetson tx2, 2019

Jose, Edwin, M. Greeshma, Mithun TP Haridas, and M. H. Supriya

5th International Conference on Advanced Computing Communication Systems (ICACCS), pp. 608-613. IEEE, 2019