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UNIVERSITY OF TEXAS, ARLINGTON

Phd Student
Computer Science
Lab: HDI
Deep Network Researcher

UNIVERSITY OF TEXAS, ARLINGTON

Master of Science
Computer Science
GPA 3.875
Dec 2018

Personal Profile

- Phd Student working in HDI lab.
- Deep Network researcher
- Area of Interest: Machine Learning, Artificial Intelligence, Computer Vision and Robotics

Thesis Project

Working on Deep Neural Network, implementing a method to make Deep Neural Network (Convolutional neural Network) more efficient in terms of accuracy and time. We have tested our proposed method on MNIST and CIFAR-10 data set and getting better result in terms of accuracy and converge time.

Platform and language used

- Tensorflow
- Python 3.6
- OpenCV
- Keras
- Anaconda

Academic Projects

Classifier (Machine Learning) – Implement the algorithm which train itself on training data to predict class of actual data.

- Implement classifier based on: <https://github.com/BhaskarTrivedi/MachineLearning>
 - Naïve Bayes, Histogram and Mixture of Gaussian (EM algorithm), Linear Regression and Logistic Regression, Neural Network, Decision Tree and Random Forest, k-Nearest Neighbor, Dynamic Time Warping, Clustering, Reinforcement Learning

Neural Network – Implemented computer vision face recognition using convolutional Inception (Deep Learning) neural network.

Object Localization and Detection: - Implemented project for real-time object detection using OpenCV and deep neural network. <https://github.com/BhaskarTrivedi/ObjectDetection>

Research Paper Implementation - Study and Implement system for large vocabulary sign search for American Sign Language (ASL). A user can submit video of unknown sign as a query, system look into database for matching sign video and retrieve meaning of unknown sign for user.

Professional Experience

TA course 1320, UTA: My job to help student with their assignment and doubt related to course work.

Spring 2019

Grader course 1325, UTA: My job to evaluated and graded exam paper, quizzes and assignment. I also helped student with object-oriented development using c++.

Fall 2018

Grader course 1310, UTA: As Grader I evaluated and graded exam paper and assignment. I also helped student with their assignment and project development and guided them to write efficient code in java.

Spring 2018

Robert Bosch Engineering and Business Solutions Limited, Bangalore India

Project: iTraMS

June 2014 - July 2016

Intelligent transport management system (iTraMS) is an end-to-end Vehicle to Infrastructure (V2I) ecosystem designed to address the challenges of modern-day transportation and management of vehicles

Responsibilities

- Interacted with the stakeholders to get an overall direction and strategy on upcoming enhancements and projects
- Led the system architecture decisions during sprint planning, provided technical directions and code reviews
- Write code to develop new module, Designed and developed iTraMS EOL test tool which tests the functionality of iTraMS device at assembly line
- Initiated training for new resources on the project

STREET RESPONSE LABS (SR Labs), Pune India

Nov. 2013 - April 2014

Project: SMDS (SR Market Data Solution)

SMDS is a module designed to process Stock Exchange data with ultra-low latency. It works between the exchange and the user application to provide real-time data to the client

Responsibilities

- Developed the module to support market data analysis
- Performed code maintenance and bug fixing to ensure application stability

Persistent Systems Limited, Pune India

July 2011 – Oct 2013

Project: ITCAM Agent for SAP Application

This product works as an agent between IBM Tivoli Server and SAP System. It monitors the SAP system by fetching the data from the SAP Server. It is supported on a wide range of platforms

Responsibilities

- Collected, analyzed and summarized business needs and technical requirements for completeness, consistency and clarity in agile methodology
- Developed a new module using C++, STL, and Boost Library
- Created Component Level Design (CLD) document according to user requirements

Achievements

- Awarded with ‘You Made a Difference Award’ for valuable contribution towards the project: ITCAM SAP Monitoring
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