Shantanu Ghosh

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OBJECTIVE

To secure a PhD position in the area of Machine Learning/Deep Learning with a focus

of Computer Vision and Causal Inference

RESEARCH INTERESTS

Deep Learning, Machine Learning, Computer Vision, Causal Inference

EDUCATION

University of Florida, Gainesville, FL, USA

Master of Science, Computer and Information Sciences

Aug, 2019 - Aug, 2021

GPA: 3.88/4

West Bengal University of Technology, West Bengal, India

Bachelor of Technology from Institute of Engineering and Management

Computer Science and Engineering

Aug, 2008 - Aug, 2012

GPA: 8.38/10

RESEARCH EXPERIENCE Data Intelligence Systems Lab (DISL), Gainesville, FL, USA

Graduate Student Researcher

May 2020 - Present

Developing a Deep Auto encoder based Neural Network model to perform propensity score matching to estimate average causal effect of a treatment in the area of Causal Inference under the supervision of Dr Prof Mattia Prosperi of the department of Epidemiology in the University of Florida.

Multimedia Communications and Networking Laboratory (MCN), Gainesville, FL, USA

Independent Researcher

Feb 2020 - Present

Developing a Deep Convolutional Neural Network with Multitask Learning to classify different textures within a image under the supervision of Dr Prof Dapeng Oliver Wu of the Department of Electrical & Computer Engineering in the University of Florida.

EXPERIENCE

Lexmark International India Pvt Ltd, Kolkata, West Bengal, India

Software Engineering Professional II

Oct 2016 - July 2019

Worked as a Senior UI developer for the product Publishing Platform for Retail(PPR) and developed InStore Publisher component(ISP) of PPR using Angular, Bootstrap, HTML5, CSS and performed unit testing using Jasmine/Karma Framework with active participation in 2 major releases.

Cognizant Technology Solutions India Pvt Ltd, Kolkata, West Bengal, India
Associate, Projects

March 2013 - September 2016

As an Application developer for the project Wells Fargo Domain Services and Customer Centre Optimization, developed WCF web services in the Contract First Approach to provide secure communication between different In-house applications and the reporting platform of Wells Fargo using Service Oriented Architecture (SOA) using C#. Net 4.0/4.5.2, Oracle Client 11g. Also trained C# and Oracle to the new recruits in the Cognizant Academy.

PROJECTS

Classification of Handwritten Characters Sep - Dec 2019 Fundamentals of Machine Learning, University of Florida, FL, USA

Developed a deep CNN to classify Handwritten Characters, by training it with the Handwritten Character Dataset under the guidance of Prof Alina Zare, inspired by the famous architecture "Lenet" (http://yann.lecun.com/exdb/publis/pdf/lecun-01a.pdf)

by utilizing the Adam Optimizer, Batch Normalization and dropout and achieved a classification accuracy of 97.3% on a customised data set prepared by Prof Zare

- Technology/Tools: Python, Pytorch
- Link: https://github.com/Shantanu48114860/Handwritten-Character-Recognition

Implementation of P2P network Computer Networks, University of Florida, FL, USA

Nov - Dec 2019

Created a peer-to-peer network for file downloading. Developed two pieces of software – peer and file owner. The file owner has a file, and it breaks the file into chunks of 100KB. Each peer connects to the file owner to download some chunks. It then has two threads of control, one acting as a server that uploads the local chunks to another peer (referred to as upload neighbor), and the other acting as a client that downloads chunks from a third peer (referred to as download neighbor).

- Technology/Tools: Socket Programming, Java
- Link: https://github.com/Shantanu48114860/P2P-File-sharing

Hashtag Counter

March - April 2020

Advanced Data Structures, University of Florida, FL, USA

Implemented a system to find the most popular hashtags that appear on social media such as Facebook or Twitter using Max Fibonacci Heap data structure and a max priority structure to find out the most popular hashtags.

- Technology/Tools: Java
- Link: https://github.com/Shantanu48114860/HashTagCounter

TECHNICAL SKILLS

Languages: Python, C++, C, Java, C#, Javascript/Typescript

Database: MySQL, Oracle 9i/10g, MS SQL Server, DB2

Web Development: Angular, Node.js, WCF Infrastructure/ Build: AnthillPro, Jenkins

Machine Learning: TensorFlow, PyTorch, NumPy, Scikit-learn

CERTIFICATION.

• Mathematics for Machine Learning: Linear Algebra by Imperial College of London on Coursera

Verify: https://www.coursera.org/account/accomplishments/certificate/WQ4T9KJY9BMQ

• Mathematics for Machine Learning: Multivariate Calculus by Imperial College of London on Coursera

Verify: https://www.coursera.org/account/accomplishments/certificate/6T8VSZFQQTL3

- Neural Networks and Deep Learning by Prof Dr Andrew Ng on Coursera Verify: https://www.coursera.org/account/accomplishments/certificate/7QTVEMQDCBYT
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization by Prof Dr Andrew Ng on *Coursera*

Verify: https://www.coursera.org/account/accomplishments/certificate/K5CPQ59DJU4H

• Convolutional Neural Networks by Prof Dr Andrew Ng on Coursera

Verify: https://www.coursera.org/account/accomplishments/certificate/Q5C738AYSZ3Q

GRADUATE COURSES

- Fundamentals of Machine Learning
 Distributed Operating Systems
 Computer Networks
 Mathematics for Intelligent Systems
 Advanced Data Structures
- Machine Learning Deep Learning Comp Graphics Fundamentals of Probability

ACHIEVEMENTS.

- Recipient of National Scholarship Award from Central Government Human Resource Development Department of Higher Education, India for excellent result in Higher Secondary Examination in the state of West Bengal, India.
- Topped with 1% of all candidates appeared in West Bengal Joint Entrance Examination in 2008.