#### 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

Machine Learning, Deep Learning, Computer Vision, Causal Inference

**EDUCATION** 

University of Florida, Gainesville, FL, USA

Master of Science, Computer and Information Sciences

Aug, 2019 - Aug, 2021

GPA: 3.78/4

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

**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 February 2016 - September 2016

As an Application developer for the project Wells Fargo Domain Services and Customer Centre Optimization developed WCF web services in 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.

Cognizant Technology Solutions India Pvt Ltd, Kolkata, West Bengal, India
Programmer Analyst

March 2013 - January 2016

As an FULL STACK developer developed the 1EXF(Excellence First) Web Application using Oracle 10g, C# .Net 3.5/4.0, Angular Js, HTML, CSS, Bootstrap and built the 1EXF Batch application architecture using C#, Unity Framework, Dependency Injection and Interception.

**PROJECTS** 

Texture Classification (In Progress)

Feb 2020 - current

Individual Study, University of Florida, FL, USA

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.

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 by inspired by the famous architecture "Lenet" (http://yann.lecun.com/exdb/publis/pdf/lecun-

01a.pdf) by utilizing the Adam Optimizer and Batch Normalization and achieved a classification accuracy of 97.3%

- Technology/Tools: Python, Pytorch
- $\bullet \ \, \textbf{Link:} \ \, \text{https://github.com/Shantanu48114860/Handwritten-Character-Recognition} \\$

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

Nov - Dec 2019

Created a peer-to-peer network for file downloading. There are two pieces of software – peer and file owner. The file owner has a file, and it breaks the file into chunks of 100KB, each has been stored as a separate file. 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). So each peer has two neighbors, one of which gets chunks from this peer and the other sends chunks to this peer.

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

# $\begin{array}{ll} {\it Hashtag~Counter} & {\it March-April~2020} \\ {\it Advanced~Data~Structures},~{\it University~of~Florida},~{\it FL},~{\it USA} \end{array}$

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. For the scope of this project hashtags will be given from an input file. Basic idea for the implementation is to use 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, Regulariza-

tion 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

- $\bullet$  Fundamentals of Machine Learning  $~\bullet$  Distributed Operating Systems  $~\bullet$  Computer Networks
- Mathematics for Intelligent Systems Advanced Data Structures

#### 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.