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Unnikrishnan**T A**

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Work Experience

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07/16 - Now Junior Research Fellow

IIT Kharagpur

Working on medical data analytics- trying to build a remote health care delivery system that is capable of disease classification and identifying disease progression.

11/12 - 09/13 Associate Software Engineer

Accenture, Bangalore, India

Green Field Training(GFT) specializing in Core Java and JEE concepts covering the basics of JSTL, AJAX, Spring, HTML, MySQL etc. Worked for BestBuy Application Capability Management focusing on their supply chain management system. The primary skill used in the project was 'Yantra', by Sterling Commerce Corporation, presently part of IBM Sterling Supply Chain Solutions. Attended IBM's training on 'Sterling Order Management 9.1'.

Programming

Python ****

Java ****

C ****

Android ***

Latex ***

Projects

09/15 - Now Social Relationship Management Strategies

(Social Networks, Machine

Learning, NLP)

SRM tools are used by different companies to better manage their social media presence. They often prioritize the incoming posts based on a ranking function and reply to them based on this ranking. The challenges in improving the performance of an SRM tool will thus include modeling of a ranking function, managing the bursts in arrival rate and also the clustering of *near similar* tweets. Collaboration project with Flipkart Data Science team. Mentor: Prof. Niloy Ganguly, Samik Datta (Flipkart)

Social/Web Presence

Stack Overflow 500px Facebook Twitter

02/15 - 10/15 Anatomy of Large Scale e-Commerce Promotional Events(Social Networks, Complex Networks, NLP)

Investigates the structure of conversation-graphs on *Twitter* that emerge from the *hot-and-short* large-scale online promotional events. The evolution of new community structures, user movements between communities during the event window and the role of influential users in the final sentiment propagation are some of the interesting observations. Industry collaboration with Flipkart Data Science team. Mentor: Prof. Niloy Ganguly, Samik Datta (Flipkart))

Areas of Interest

Complex Networks Social Networks Information Retrieval Data Mining

08/14 - 11/14 Centrality Ranking in Multiplex Networks

(Complex Networks)

Betweeness Centrality is a popular measure of importance of a node in a network. In this project, we tried to reproduce the results explained in their paper by *Albert Solé-Ribalta et.al* for the calculation of Betweenness Centrality by extending *Brandes Method* to account for the multiplexed network structure. Academic project for Social Computing course, IIT Kharagpur.

Publications

Binny Mathew, Unnikrishnan T A, Tanmoy Chakraborty, Niloy Ganguly, Samik Datta - "Mining Twitter Conversations around E-commerce Promotional Events", *CSCW 2016 Posters*.

Courses Taken

Relevant Education

2006

Social Computing
Complex Networks
Computational-
Complexity
Advanced Graph-
Theory (audit)
Data Mining
Combinetorics
Applied Computer-
Vision

2014 - 2016	Department of CSE, IIT Kharagpur.	CGPA- 8.63/10
2008 - 2012	B. Tech in Computer Science & Engineering FISAT - Federal Institute of Science & Technology, MG University, Kottayam, Kerala	Aggregate - 73.9 %
2006 - 2008	Higher Secondary Education in Computer Science BHSS - Brahmanandodhayam H.S.S. Kalady, Kerala	Aggregate - 96.8 %

BHSS - Brahmanandodhayam H.S.S. Kalady, Kerala

Aggregate - 94.4 %

Languages

English **** Malayalam ★★★★ Hindi ★★★★★ Sanskrit ★★★★★

Scholastic Achievements

SSLC

Second best course project award for Flipkart's course project evaluations, Complex Networks course, Spring 2015, IIT Kharagpur.

Team member in one among the 8 teams who made it to the finals of Flipkart Hack Day 2015, IIT Kharagpur. Theme: "Make in India" - the teams were asked to develop an android app based on the theme.

First place in Paper Presentation in Tathva '11, National level technical symposium held at National Institute Of Technology, Calicut in October 2011.

First place in Paper Presentation in Excel 2011, National level technical symposium held at Govt. Model Engineering College, Ernakulam in September 2011.

Second place in Technical Projects Exhibition in the Second National Technological Congress, Kerala held at Government Engineering College, Trichur in January 2012.

Teaching Assistance

Co-mentor in Complex Networks course 2016 Spring, IIT Kharagpur. Projects: When the lolcats meet the Philosoraptors - A study on the dynamics of image memes, Deep learning for phrase representations - An RNN Encoder-Decoder approach.

Teaching Assistant in Systems Design Lab during 2015 Autumn semester, IIT Kharagpur. Mentored a team of six members in various phases of developing an android app right from requirement analysis to development.

Co-Mentor in Smart-phone Computing course 2015 Autumn semester, IIT kharagpur.

Extra Carricular Achievements

Co-Founder and Chief Photographer at Pix2 Media, a professional photography service group initially located in Kochi, Kerala.

Was one of the official photographers of FISAT during my academic period 2011-12 and headed a photography team covering all major events that took place in that time period.

References

Dr. Niloy Ganguly Professor, Deptt. of Computer Science & Engg Indian Institute of Technology,Kharagpur. ganguly.niloy@gmail.com Dr. Rogers Mathew Assistant Professor, Deptt. of Computer Science & Engg. Indian Institute of Technology,Kharagpur. rogersmathew@gmail.com

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