Sagar Joglekar

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OBJECTIVE

Contribute in research and development efforts in the fields of inference modeling , complex networks and data science.

EDUCATION

- **Ph.D, Computer Science**
  King's College, London, UK, expected 2018
- **Master of Science, Electrical and Computer Engineering**
  University of California, Santa Barbara , CA , USA, February 2012
- **Bachelor of Engineering, Electronics Engineering**
  University of Pune, India, May 2008

AWARDS

- **King's India Scholarship**
  My Ph.D. is supported by this award. King's graduate school awards this scholarship to one Indian citizen every year, to pursue scientific research.

EXPERIENCE

Research student, King's College, Dept. of Informatics 09/2015 – Present

At King's I am working on pursuing a Ph.D. in Computer Science. My main areas of interest for my thesis are Human affects, complex networks and machine learning. I am using frameworks from all these areas to understand influence and role of human affects on the dissemination of information in social networks.

Engineering and Research, Firedrop.ai 05/2016 – Present

At Firedrop, I primarily consult on research and engineering efforts to design the core A.I. and inference modeling engine, which would allow the service to take the right website design decisions for our customers.

Research Intern, Nokia Bell Labs, Cambridge, UK 06/2017 – 09/2017

As a part of my summer Internship at Bell labs, I worked on explainable and visualizable deep learning models for urban perception of emotions and intangible attributes like Beauty, wealth and liveliness. The results of the work would be published as a scientific paper.

Research Associate, Blizzard Institute , QMUL 06/2016 – 11/2016

I was working as a principle researcher for a project supported by Blizzard Institute at QML. The work involved studying message exchange topology of medical community networks to understand health of communities and support processes. There are publications in progress which are the output of this work.

Senior Software Engineer, Citrix Systems 02/2012 – 09/2015

My job at Citrix dealt with design and implementation of proprietary communications stack and platform libraries for Android, iOS and the web. As a team we work on implementing Citrix's client side network communications platform code. Some of the salient projects I have contributed to are as follows:

- Develop platform communications stack for iOS that presents an API for products to exercise and communicate with Citrix infrastructure. The platform is currently used in Citrix SaaS products like Convoi, Talkboard and GotoAssist, for audio and screen sharing media communications.
- As a part of Citrix hack-week 2013, I along with two other hackers came up with an idea to hack GotoAssist mobile endpoints and add camera stream sharing and annotations with Audio communication. This morphed the existing GoToAssist product into a tool to support real world use cases. The feature has now been incorporated and marketed as GotoSeeit
- I was a major contributor in design and development of a platform API for our newly launched GotoMeeting web client. I designed and implemented a whole new protocol for efficient screen sharing on HTML5 and mobile.

Summer Intern, Citrix Systems 06/2011 – 12/2011

My internship dealt with porting and modification of proprietary runtime communication libraries and automated testing frameworks for Android.

Systems And Bio Imaging Lab, UCSB 01/2011 – 06/2011

As a Graduate student researcher, I worked on research and development of a system to incorporate HDR imaging in biological fluorescent microscopy. This project was part of my research at Systems and Bio-Imaging Lab at UCSB. The main aim of this project is to enable High Dynamic Range microscopy for dynamic samples.

Research Engineer, Infosys Research Labs, India 07/2008 – 07/2010

My job dealt with research and development of algorithmic solutions, exploring possibilities and conducting research in Digital Convergence. One of my major responsibilities was research, design and development of some intellectual properties and solutions that involve Computer vision based algorithms

PATENTS

- Method and system for performing transcoding resistant watermarking , U.S.A Patent : 8,885,871
- System and method for tracking a person in a pre-defined area , U.S.A. Patent Pending: 20110317010

PUBLICATIONS

- *Like at First Sight: Understanding User Engagement with the World of Microvideos*, Published at conference on Social Informatics, 2017 Oxford.
- *Fake it till you make it: Fishing for Catfishes.*, Published at conference on Advances in Social Networks Analysis and Mining 2017.
- *An Innovative System for Remote and Automated Testing of Mobile Phone Applications* published at *IEEE /SRII Global Conference (SRII), 2012 Annual*
- *Robust transcoding resistant watermarking for H.264 standard* published in *Journal for Multimedia Tools and Applications 2012 issue*

- *A Novel Way of Tracking People in an Indoor Area* published in *Advanced Computing, Networking and Security Lecture Notes in Computer Science, 2012, Volume 7135/2012, 85-94*
- *Transcoding resistant robust watermarking technique using entropy-based selective spread spectrum* published in *International Journal of Multimedia Intelligence and Security 2010 - Vol. 1*

TECHNOLOGY

- Programming languages: Java , Python , C++ , Javascript
- Machine Learning frameworks: TensorFlow, Theano, Caffe, Scikit Learn and all the visualization tools
- Back-end: Nodejs , Django

TEACHING EXPERIENCE

- **Teaching assistant , Complex Networks Analysis (September 2016-December 2016):** I conducted tutorials and occasionally taught the course of complex networks analysis for business department at Queen Mary University of London
- **Teaching assistant Physics (Jan 2011-June 2011):** I assisted in teaching and conducted tutorials for Astronomy 1 course offered by the Physics department at UC Santa Barbara.
- **Visiting Guide and Mentor (Dec 2009-March 2010):** I mentored a group of 20 students for Robotics Forum (VIT) sponsored project to develop a hardware development platform for computer vision based robotics.
- **Lecture series (12 hrs.) on Computer vision using MATLAB and OpenCV (2008,2009):** Lecture series conducted for Robotics forum and for third year Engineering students in VIT for introduction to Image processing and use of *MATLAB* for computer vision/Image processing.
- **GMRT, Functioning and Signals processing involved (2008):** Seminar covered a comprehensive explanation of Radio telescopes and the Signals processing involve