ROHIT KUMAR

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RESEARCH INTEREST

Big Data platforms, Data Stream Mining, Graph Stream Mining and Distributed Processing, Data mining and Machine Learning, Data Security and Privacy.

SUMMARY

I have a diverse background with graduation in Physics and research training in Nanoscience followed by masters in Computer science. After doing a successful startup and working in Indian IT company for 6.5 years I moved to Europe to pursue my passion for research and knowledge. Currently, I am pursuing my Ph.D. in "Graph Data stream mining and distributed processing" from ULB(Brussels) and UPC(Barcelona). My research focuses on designing efficient one pass algorithms to analysis large temporal networks such as social media network. I also work on distributed graph processing where I focus on using cost model based approach for adaptive graph partitioning on Apache GraphX. I have multiple publications in top conferences and 1 granted and 2 applied patents.

RESEARCH EXPERIENCE

ULB and UPC Aug 2014 - now
PhD candidate *Brussels, Belgium and Barcelona, Spain*

· Working on Graph stream mining algorithms.
· Working on Apache GraphX and other Distributed Graph processing systems.

TCS - Tata Research Development and Design Center April 2011 - September 2011
Researcher *Pune, India*

· Worked on data privacy and data security and on developing Data masking Tool in C++.

JNCSAR, IISC, Bangalore 2004 - 2007
Summer Research Intern *Bangalore, India*

· Did two summer and one winter training in Nanoscience and Nanomaterials.

EDUCATION

Université Libre de Bruxelles (ULB), Belgium & Universitat Politécnica de Catalunya (UPC), Spain August 2014 - Now

· Joint PhD in Computer Science

Chennai Mathematical Institute, India April 2008 - March 2011

· M.Sc in Computer Science

Hindu College Delhi University, India July 2004 - July 2007

· B.Sc(Hons) in Physics

TECHNICAL SKILLS

Programming	Java, Scala, C++, R-basics, Python-basics
Databases	MySQL, Microsoft SQL, MongoDB, Oracle Coherence
Tools	SVN, CVS, github, Eclipse, RStudio, Octave, Matlab, gnuplot
Others	Hadoop, Apache Spark, Apache Storm, Kafka, Struts 2, JDBC

INDUSTRY WORK EXPERIENCE

Royal bank of Scotland   June 2014 - July 2014
Software Designer   *New Delhi, India*

· Developing high availability query systems on Oracle Coherence.

Tata Consultancy Services   April 2013 - May 2014
Assistant Consultant   *Mumbai, India*

· Scrum Master and Java Technical team lead for the development of an Online Assessment software.
· Managed a team of 30 software developers.

Tata Consultancy Services   April 2011 - March 2013
IT Analyst   *Mumbai, India*

· Developed and deployed the complete Eco-system of the online assessment platform in multi-tenant architecture for software as a service model.

Tata Consultancy Services   Nov 2007 - March 2011
Assistant System Engineer   *Chennai, India*

· Lead architect to develop and deploy the massive online assessment platform for TCS hiring throughout India.
· Performance and Security Lead for the online assessment platform.

AWARDS AND ACHIEVEMENTS

- FNRS-Belgian National Funds for Scientific research, Scholarship for Doctoral Research Study.
- Best Technical Lead Award in ACTion2013 in SMB iON, TCS.
- Special initiative Award by TCS in May 2013.
- Technical Excellence Award by TCS in March 2012.
- Innovation of the year award southern region in TATA Innovista 2011.
- Senior Diploma in Arts and Painting from Ankan Kala Bibhag, Ravindra Bharti University in 2006.

PUBLICATIONS AND PATENTS

- IMaxer: A Unified System for evaluating Influence Maximization Mechanisms in Location-based Social Networks.CIKM 2017 (DEMO Paper)
- Finding simple temporal cycles in an interaction network. ECML/PKDD 2017 (Workshop paper)
- Activity-Driven Influence Maximization in Social Networks. ECML/PKDD 2017 (Nectar Track)
- Cost Model for Pregel on GraphX. ADBIS 2017
- Information Propagation in Interaction Networks. EDBT 2017
- Location Influence in Location-based Social Networks. WSDM 2017
- Maintaining Sliding-Window Neighborhood Profiles in Interaction Networks. ECML/PKDD 2015
- System and method for automated competency assessment (US8915744) - Granted
- Secured Computer Based Assessment (US20140186812A1) - Applied
- Customized question paper generation (US20130084554) - Applied