

# ROHIT KUMAR

Personal website: <http://rohit13k.github.io/>

(+32) · 465 · 931350 ◊ rohit1308k@gmail.com ◊ Brussels, Belgium

Languages: English(native fluency), Hindi(native), Spanish(A1)

## RESEARCH INTEREST

---

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

## SUMMARY

---

I am an ambitious, enthusiastic and talented individual with a keen eye for detail and a flair for new start ups and projects. I have got an opportunity to work on a new initiative and take it from an internal project to a million dollar business. My objective is to work in a challenging work environment and to learn something new every day. I have worked in an Indian IT industry for 6.5 years before moving 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). I have 6 publications in top conferences and 1 granted and 2 applied patents.

## WORK EXPERIENCE

---

### ULB

*Research Assistant*

August 2014 - now

*Brussels, Belgium*

- 1 A\* rank, 2 A rank and 1 B rank full conference papers published.
- Working on Graph stream mining algorithms for different use cases influence propagation or fraud detection.
- Working on Apache Spark and other Distributed Graph processing systems like Hadoop, MongoDB, Kafka.
- Lab and teaching assistant for 1 year in Data warehouse Masters course for 20 students.

### Digital Vidya

*Trainer*

September 2017 - now

*India*

- Designed and delivered online course on Big Data Engineering course for Digital Vidya for a batch of 10 students.
- Delivered online course on Data science with Python for Digital Vidya for a batch of 7 students.
- Delivered lectures on Pandas, Matplotlib, NumPy, Machine learning, Hadoop and Spark.

### Royal bank of Scotland

*Software Designer*

June 2014 - July 2014

*New Delhi, India*

- Developing high availability query systems on Oracle Coherence.

### Tata Consultancy Services

*Assistant Consultant*

April 2013 - May 2014

*Mumbai, India*

- Technical team lead for the development of an Online Assessment software.
- Client interaction and designing new offerings for education domain.
- Managed a team of 30 software developers.

### Tata Consultancy Services

*IT Analyst*

April 2011 - March 2013

*Mumbai, India*

- Managed the technical aspects of expanding my master's thesis from in house incubation to a million dollar business for TCS.
- Developed and deployed the complete Eco-system of the online assessment platform in multi-tenant architecture for software as a service model.
- Managed a team of 10 software developers.

#### **TCS - Tata Research Development and Design Center**

April 2011 - September 2011

*Researcher*

*Pune, India*

- Worked on data privacy and data security.

#### **Tata Consultancy Services**

Nov 2007 - March 2011

*Assistant System Engineer*

*Chennai, India*

- Lead architect to develop and deploy the online assessment platform for TCS hiring throughout India.
- Performance and Security Lead for the online assessment platform.
- Taught Algorithms and Java to new employees as a part of learning and development program.

#### **JNCSAR, IISC, Bangalore**

2004 - 2007

*Summer Research Intern*

*Bangalore, India*

- Did two summer(2 months) and one winter(1 month) research intern in Nanoscience.

### **EDUCATION**

---

#### **Université Libre de Bruxelles (ULB), Belgium & Universitat Politècnica de Catalunya (UPC), Spain**

August 2014 - Now

- Joint PhD in Computer Science
- Research Topic: Graph Stream mining and distributed processing

#### **Chennai Mathematical Institute, India**

April 2008 - March 2011

- M.Sc in Computer Science
- Thesis Topic: Security aspects of online Assessment platform-Touchstone

#### **Hindu College Delhi University, India**

July 2004 - July 2007

- B.Sc(Hons) in Physics

### **TECHNICAL SKILLS**

---

<b>Programming</b>	Java, Scala, C++, R-basics, Python
<b>Databases</b>	MySQL, Microsoft SQL, MongoDB, Oracle Coherence
<b>Frameworks</b>	Hadoop, Apache Spark, Apache Storm, J2EE, Kafka, Struts 2, JDBC
<b>Data Science libraries</b>	Pandas, NumPy, Matplotlib, scikit-learn
<b>Tools</b>	SVN, CVS, github, Eclipse, RStudio, Octave, Matlab, gnuplot

### **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.

## 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