# Rohit Kumar

## Data Science Practitioner

### Civil status
Married

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### Programming
| | |
|---|---|
| Java | ★★★★★ |
| Scala | ★★★★☆ |
| C++ | ★★★☆☆ |
| Python | ★★★☆☆ |

### Databases
| | |
|---|---|
| MySQL | ★★★★★ |
| Microsoft SQL,NoSQL | ★★★☆☆ |
| Oracle Coherence | ★★☆☆☆ |

### Big Data Systems
| | |
|---|---|
| Spark | ★★★★★ |
| Hadoop | ★★★☆☆ |
| Flink | ★★☆☆☆ |
| Kafka | ★★☆☆☆ |
| MongoDB | ★★☆☆☆ |

## Experience

**Aug. 14 - Now** — **PhD Researcher** — Université Libre de Bruxelles (ULB), Belgium
Pursuing Ph.D. in "Graph Data stream mining and distributed processing" from ULB (Brussels) and UPC (Barcelona). The research focuses on designing efficient one pass algorithms to analysis large interaction networks such as social media network.
Worked on Influence maximization and Information propagation problems using Interaction network.
Currently, working on distributed graph processing, using cost model based approach for adaptive graph partitioning on Apache GraphX.
Working on Apache Spark and other Distributed Graph processing systems like Hadoop, MongoDB, Kafka.
1 A* rank, 2 A rank and 1 B rank full conference papers published.

**Sep. 17 - Now** — **Online Trainer** — Digital Vidya, India
Designed and delivered online course on Big Data Engineering course (Hadoop, Spark, NoSQL) for Digital Vidya for a batch of 10 students.
Delivered online course on Data science with Python (NumPy, Pandas, scikit-learn) and Scala (Spark Mllib) for Digital Vidya online courses.

**Jun. 14 - Jul. 14** — **Software Designer** — Royal bank of Scotland, Delhi, India
Developed data pipelines with Java for the banking system using Oracle Coherence.

**Apr. 11 - May. 14** — **Assistant Consultant** — Tata Consultancy Services, Mumbai, India
Technical team lead for the entire online assessment platform, an online cloud based system for conducting online examinations and certifications.
Developed and deployed the complete Eco-system of the online assessment platform in multi-tenant architecture for software as a service model.
Technologies used: J2EE, Java, MySQL, SVN, Struts 2.

**Mar. 11 - Sep. 11** — **Researcher** — Tata Research Development and Design Center, Pune, India
Worked on data privacy and data security. Worked on data masking techniques for privacy preserving data mining.
Technologies used: C++, CVS

**Nov. 07 - Mar. 11** — **Assistant System Engineer** — Tata Consultancy Services, 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.
Technologies used: Java, CVS, Haskel, Java Security library, XML, Microsoft SQL.

**Jun. 05 - Jun. 07** — **Summer Research Intern** — JNCSAR, IISC, Bangalore, India
Did two summer(2 months) and one winter(1 month) research intern in Nanoscience. Worked with P.hD students on analyzing nano material properties under electron microscopes.

## Languages

**English** ★★★★★
**Hindi** ★★★★★
**Spanish** ★☆☆☆☆

## Personal Skills



Work capacity: Research, Plan, Team-player, Analytic, Initiative

# Education

**Aug. 14 - Now**    **Ph.D Candidate**    Université Libre de Bruxelles & Universitat Politécnica de Catalunya
Did summer research internship at IISC Banglore every summer break. Co-Organized Physics Department fest on 2006. Percentage: **76.1%**

**Aug. 08 - Apr. 11**    **M.Sc in Computer Science**    Chennai Mathematical Institute, India
The Master course was done part time while working in TCS. Main subjects: Discreet Mathematics, Database Systems, Operating systems, Data mining, Cryptography, Statistics, Design and Analysis of Algorithm, Theory of Computation, Programming language Concepts. Grade: **8.44%**
Thesis: Security aspects of online Assessment platform-Touchstone.

**Jul. 04 - Jul. 07**    **B.Sc(Hons) in Physics**    Hindu College, Delhi University
Did summer research internship at IISC Banglore every summer break. Co-Organized Physics Department fest on 2006. Percentage: **76.1%**

# Awards and Achievements

**Apr. 13**    **Best Technical Lead Award in ACTion2013 in SMB iON**    TCS
Awarded best technical lead in the entire department of 500 developers and 25 teams.

**Sep. 11**    **Innovation of the year award southern region**    Tata Innovista
Tata group yearly award for innovations accross the Tata groups companies.

*Rohit Kumar*
*January 11, 2018*