








# MOHAMMAD RIFAT AHMMAD RASHID

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DATE OF BIRTH 	1 Aug 1987
NATIONALITY 	Bangladeshi
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## EDUCATION AND TRAINING

. DATE (FROM – TO)	Dec. 2014 – present
. NAME AND TYPE OF ORGANIZATION PROVIDING EDUCATION AND TRAINING	Department of Control and Computer Eng. (DAUIN), Polytechnic University of Turin
. DURATION OF THE PROGRAM OF STUDY	3 years
. PRINCIPAL SUBJECT/OCCUPATIONAL SKILLS COVERED	<b>Computer and Control Engineering</b>
. TITLE OF QUALIFICATION AWARDED	<b>PhD</b>
. FINAL MARK OBTAINED	Still Ongoing
. DATE (FROM – TO)	Sep. 2012 – Sep. 2014
. NAME AND TYPE OF ORGANIZATION PROVIDING EDUCATION AND TRAINING	University of Pavia
. DURATION OF THE PROGRAM OF STUDY	2 years
. PRINCIPAL SUBJECT/OCCUPATIONAL SKILLS COVERED	<b>Service Engineering (Business Intelligence)</b>
. TITLE OF QUALIFICATION AWARDED	<b>Master of Science</b>
. FINAL MARK OBTAINED	102 out of 110
. DATE (FROM - TO)	Apr. 2005- Dec. 2009
. NAME AND TYPE OF ORGANIZATION PROVIDING EDUCATION AND TRAINING	Khulna University
. DURATION OF THE PROGRAM OF STUDY	4 years
. PRINCIPAL SUBJECT/OCCUPATIONAL SKILLS COVERED	<b>Computer Science and Engineering</b>
. TITLE OF QUALIFICATION AWARDED	<b>Bachelor of Science</b>
. FINAL MARK OBTAINED	3.76 out of 4 (Distinction)

## GRADUATION THESIS |

LEVEL PhD  
TITLE **Automated Quality Assessment and Validation for Evolving Knowledge Bases**  
LANGUAGE English  
SUPERVISOR Prof. Marco Torchiano

THESIS SUMMARY *Assessing the quality of a Knowledge Base (KB) is a complex task as it often means measuring the quality of structured information, ontologies and vocabularies, and queryable endpoints. Popular knowledge bases such as DBpedia, YAGO2, and Wikidata have chosen the RDF data model to represent their data due to its capabilities for semantically rich knowledge representation. Despite its advantages, there are challenges in using RDF data model, for example, data quality assessment and validation. Ontologies are designed for entailment rather than assessment. Most ontologies lack the granular information needed for validating constraints. In this work we present a two-fold data-driven approach for the automated quality assessment and validation of evolving knowledge bases. We compare consecutive knowledge base releases to compute quality measures that allow to detect quality issues and assess the overall quality. Then, the approach validates the schema by using a machine learning classifiers that constructs RDF shapes. In our experimental setup, for a subset of DBpedia data the quality assessment achieved 89% accuracy for completeness quality characteristics in error detection. For validation task our approach achieved 97% precision in deriving RDF Shapes with cardinality constraints.*

## WORK EXPERIENCES & INTERNSHIP |

. DATE (FROM - TO) Nov 2014 – Present  
. NAME AND ADDRESS OF FIRM/  
UNIVERSITY Polytechnic University Of Turin  
. TYPE OF BUSINESS OR SECTOR -Educational Institute

. TYPE OF EMPLOYMENT Graduate Researcher  
. MAIN ACTIVITIES AND RESPONSIBILITIES - Working as Research in the area of open data, data quality and knowledge management.

DATE (FROM - TO) Jul 2011 – Sep 2012  
. NAME AND ADDRESS OF FIRM/  
UNIVERSITY **Bangladesh University of Business and Technology (BUBT)**  
. TYPE OF BUSINESS OR SECTOR -Educational Institute

. TYPE OF EMPLOYMENT Lecturer  
. MAIN ACTIVITIES AND RESPONSIBILITIES - Worked as lecturer in Department of Computer Science and Engineering  
- Worked on various project on Business Analysis and Service Design

. DATE (FROM - TO) Dec 2009 - Apr 2011  
. NAME AND ADDRESS OF FIRM/  
UNIVERSITY **Silicon InfoTech**  
. TYPE OF BUSINESS OR SECTOR Software Industries

. TYPE OF EMPLOYMENT -Database Administrator  
. MAIN ACTIVITIES AND RESPONSIBILITIES -Oracle Database Administration

## COMPUTER SKILLS

### **Experienced in:**

- . C/C++ programming languages.
- . R and Python for scientific programming (Data Analysis, Machine Learning, Deep Learning, etc.).
- . Java.
- . PHP
- . Android programming.

### **Familiar with:**

- . C#
- . JavaScript
- . OpenCV

## LANGUAGE SKILLS

Bengali: Native

English:

IELTS (Academic): 6.5

GRE (new): 305

Italian: Beginner (A2)

## RESEARCH EXPERIENCES & COLLABORATIONS

. DATE	2017
. NAME OF THE INSTITUTION	Ontology Engineering Group, Universidad Politecnica de Madrid (UPM)
. PROJECT	Knowledge Base Quality Assessment using Temporal Analysis
. TYPE OF EMPLOYMENT	Visiting PhD Student
. ADVISOR	Prof. Oscar Corcho
. DATE	2016-present
. NAME OF THE INSTITUTION	Instituto Superiore Mario Boella (ISMB) ,Ontology Engineering Group, Universidad Politecnica de Madrid (UPM)
. PROJECT	Knowledge Base Quality Assessment using Temporal Analysis
. TYPE OF EMPLOYMENT	Researcher
. ADVISOR	Dr. Guiseppe Rizzo
. DATE	2014 – 2016
. NAME OF THE INSTITUTION	JOL MobiLAB (Mobile Social Application Lab)
. PROJECT	Open Data: data export model for eDemocracy Services
. TYPE OF EMPLOYMENT	Researcher
. ADVISOR	Marco Marengo
. DATE	2013– 2014
. NAME OF THE INSTITUTION	University of Pavia
. PROJECT	<b>Integrated Real-time Mobility Assistant (IRMA)</b>
. TYPE OF EMPLOYMENT	Research Assistant
. ADVISOR	Prof. Gianmario Motta

## RESEARCH INTERESTS

- Open Data
- Data Quality
- Machine Learning

- Deep Learning
- Data Analytics
- Business Intelligence
- Business Process Design
- Energy Awareness
- Energy Efficient Computing

## PUBLICATIONS

AUTHOR(S) AND TITLE	Nandana Mihindukulasooriya, <b>Mohammad Rashid</b> , Giuseppe Rizzo, Raúl García-Castro, Oscar Corcho, and Marco Torchiano, "RDF Shape Induction using Knowledge Base Profiling."
PUBLICATION PLACE	The 33rd ACM/SIGAPP Symposium On Applied Computing
DATE OF PUBLICATION	April 2018 (In Proceedings)
AUTHOR(S) AND TITLE	<b>Mohammad Rashid</b> , Giuseppe Rizzo, Nandana Mihindukulasooriya, Marco Torchiano, and Oscar Corcho, "KBQ - A Tool for Knowledge Base Quality Assessment Using Temporal Analysis".
PUBLICATION PLACE	Workshop on Machine Reading Co-located with K-CAP 2017
DATE OF PUBLICATION	December 4, 2017
AUTHOR(S) AND TITLE	<b>Rashid, Mohammad</b> ; Torchiano, Marco, "A systematic literature review of open data quality in practice."
PUBLICATION PLACE	2nd Open Data Research Symposium, Madrid (Spain),
DATE OF PUBLICATION	October 2016. (In Press).
AUTHOR(S) AND TITLE	<b>Rashid, Mohammad</b> ; Ardito, Luca; Torchiano, Marco, "Energy Consumption Analysis of Algorithms Implementations. "
PUBLICATION PLACE	9th International Symposium on Empirical Software Engineering and Measurement (ESEM ),China
DATE OF PUBLICATION	Oct. 2015(Published)
AUTHOR(S) AND TITLE	Rashid, Mohammad; Ardito, Luca; Torchiano, Marco, "Energy Consumption Analysis of Image Encoding and Decoding Algorithms."
PUBLICATION PLACE	4th International Workshop on Green and Sustainable Software (GREENS)
DATE OF PUBLICATION	May. 2015. (Published)
AUTHOR(S) AND TITLE	<b>Md. Rifat Ahmmad Rashid</b> , Mir Tafseer Nayeem, Kamrul Hasan Talukder, Md. Saddam Hossain Mukta, "A Progressive Image Transmission Method based on Discrete Wavelet Transform (DWT)"
PUBLICATION PLACE	I.J. Image, Graphics and Signal Processing
DATE OF PUBLICATION	May. 2012. (Published)

## TEACHING EXPERIENCES

. DATE	2015 – 2016
. NAME OF THE INSTITUTION	Politecnico di Torino
. COURSE NAME	Object Oriented Programming

. TYPE OF EMPLOYMENT	Teaching Assistant
. ADVISOR	Prof. Marco Torchiano

## CERTIFICATIONS

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. DATE      2011
. TITLE     Oracle Certified Database Administrator Oracle 10g
. TEST ID   OC0890586
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## HONORS & AWARDS

- Winning the scholarship of Polytechnic University of Turin for PhD in Computer and Control Engineering	2012
-Winning the scholarship of fund for cooperation and knowledge of University of Pavia	2014
-University Merit Scholarship (yearly result based, Position 1 <sup>st</sup> ) for pursuing my Bachelor degree	2005 - 2009

## REFERENCES

*Available upon request*