

Raghava Mutharaju

<http://raghavam.github.io>
mutharaju.2@wright.edu | 937.768.2340

RESEARCH INTERESTS

- Large Scale Computing
- Ontology Reasoning
- Knowledge Representation
- RDF Query Processing
- Semantic Web Applications
- Knowledge Graph
- Big Data

EDUCATION

WRIGHT STATE UNIVERSITY

PHD IN COMPUTER SCIENCE
May 2016 | Dayton, OH, USA

MNNIT

MOTILAL NEHRU NATIONAL
INSTITUTE OF TECHNOLOGY
M.TECH IN COMPUTER SCIENCE
June 2006 | Allahabad, India

JNTU

JAWAHARLAL NEHRU
TECHNOLOGICAL UNIVERSITY
B.TECH IN COMPUTER SCIENCE
May 2004 | Hyderabad, India

TECHNICAL SKILLS

PROGRAMMING LANGUAGES

Java, Scala, C, C++

SEMANTIC TECHNOLOGIES

OWL, RDF, SPARQL

OTHER TECHNOLOGIES

XML, SQL

DISTRIBUTED FRAMEWORKS

Hadoop, Spark

NoSQL STORES

Redis, MongoDB, Neo4j, HBase

CMS: Drupal 7.x

LINKS

GitHub: <https://goo.gl/MkXACr>

Google Scholar:

<https://goo.gl/muzqYd>

LinkedIn: <https://goo.gl/p713tV>

Twitter: <https://goo.gl/MWVFB6>

INDUSTRY EXPERIENCE

IBM T.J. WATSON RESEARCH CENTER | RESEARCH INTERN

Jun 2015 - Aug 2015 | NY, USA

IBM RESEARCH | RESEARCH INTERN

Jun 2013 - Aug 2013 | Dublin, Ireland

ALCATEL-LUCENT BELL LABS | RESEARCH INTERN

Jun 2012 - Aug 2012 | Dublin, Ireland

XEROX RESEARCH CENTER | RESEARCH INTERN

Jun 2011 - Aug 2011 | NY, USA

COMPLEXIBLE INC. | RESEARCH INTERN

Jun 2010 - Aug 2010 | Boston, USA

CA TECHNOLOGIES | SOFTWARE ENGINEER

Aug 2006 - Dec 2008 | Hyderabad, India

RESEARCH PROJECTS

DISTRIBUTED ONTOLOGY REASONING

Explored different ontology partitioning strategies, distributed frameworks and paradigms with the goal of building a scalable and efficient ontology reasoner.

SCALABLE RDF QUERY PROCESSING

Developed DSparq, a distributed and scalable RDF query engine. RDF graph is vertex partitioned. Query patterns are analyzed so that they can be pipelined.

TEMPORAL CONSISTENCY CHECKING IN WORKFLOWS

Temporal model was developed in OWL and SWRL rules. Explanations (justifications) were generated for the detected inconsistencies.

SITUATIONAL UNDERSTANDING FROM SOCIAL DATA

Built an ontology for *Protests* based on tweets, Wikipedia and news articles.

Developed REST services backed by a reasoner to find correlations among tweets.

SCHOLARLY ACTIVITIES

- Published 20+ research papers with 180+ citations
- Co-organized tutorials at IJCAI 2016, AAAI 2015 and ISWC 2014
- Workshop co-chair at ISWC 2015
- Reviewer at ESWC, ISWC, KR, WWW, ECAI, JELIA

AWARDS AND RECOGNITION

- 2015 Invited to present at the Cloud workshop organized by IBM T.J. Watson
- 2015 Selected to participate in the NSF-funded Data Science Workshop
- 2015 Awarded Amazon AWS Research grant for a period of 2 years
- 2015 Awarded Microsoft Azure Research grant for a period of 1.5 year
- 2014 Article appeared on the news of University of Huddersfield and WSU
- 2014 Travel awards for ISWC (2015, 2014, 2012), AAAI 2015, RR 2012, DL 2010