



Sanjay Kamath Ramachandra Rao

Curriculum Vitae

Personal Information

Date of Birth 02/03/1993
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Education

2016-2019 **Doctoral Studies (PhD) on Question Answering systems with hybrid data and models funded by GoASQ Project (<https://goasq.lri.fr/>) - Generating and AnSwering Onto-logical Queries.**
Discipline: Question Answering systems.
Advisors: Brigitte Grau and Yue Ma

2014-2016 **Master of Science in Informatics at Grenoble, France (MOSIG - <http://mosig.imag.fr/>)**
Specialization: Artificial Intelligence and Web

2010-2014 **Bachelor of Engineering** *Department of Computer Science*
Visvesvaraya Technological University, Belgaum, India

Internships

09/2015-06/2016 **Masters 2 Research Internship, MRIM Team - Laboratoire d'Informatique de Grenoble**
Grenoble, France.
Subject: Using explicit and implicit feedback to model context for proactive recommendations.

02/2015-08/2015 **Masters 1 Research Internship, MRIM Team - Laboratoire d'Informatique de Grenoble**
Grenoble, France.
Subject: Discovering parameters required for a web service composition from a natural language query.

Publications

09/2019 **How to Pre-Train Your Model? Comparison of Different Pre-Training Models for Biomedical Question Answering.** *Proceedings of the 7th BioASQ Workshop A challenge on large-scale biomedical semantic indexing and question answering. ECMLPKDD, September 2019.*

- 04/2019 **Predicting and Integrating Expected Answer Types into a Simple Recurrent Neural Network Model for Answer Sentence Selection** *CICLING 2019 - 20th International Conference on Computational Linguistics and Intelligent Text Processing.*
Link - <https://hal.archives-ouvertes.fr/hal-02104488>
- 11/2018 **An Adaption of BIOASQ Question Answering dataset for Machine Reading systems by Manual Annotations of Answer Spans.** *BIOASQ workshop at EMNLP 2018, Brussels, Belgium.*
Link - <http://www.aclweb.org/anthology/W18-5309>
- 04/2018 **Verification of the Expected Answer Type for Biomedical Question Answering** *First Hybrid Question Answering Workshop at The Web Conference 2018, Lyon, France.*
Link - <https://dl.acm.org/citation.cfm?id=3191542>
- 11/2017 **A Study of Word Embeddings for Biomedical Question Answering** *4e édition du Symposium sur l'Ingénierie de l'Information Médicale, Nov 2017, Toulouse, France.*
Link - <https://hal.archives-ouvertes.fr/hal-01704570/document>

Technical Skills & Background Knowledge

Programming

Advanced Python, Pytorch, Keras

Intermediate Java, Tensorflow

Project, model implementations and usage

CNN for text classification and sentiment analysis

Reader model for QA with BiLSTM

Semantic text similarity models using LSTM and attention mechanisms

Multi class classifier for predicting expected answer types from questions

Multi task models for ranking and reading

Tools

Spacy, Stanford NLP tools, NLTK

Research Interests

Question Answering, Natural Language Processing, Deep learning, Machine Learning, Text processing, Biomedical domain NLP

Languages

English - Fluent

French - Professional level

Konkani - Mother tongue

Hindi - Fluent

Kannada - Fluent