Prabal Agarwal

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Personal Statement

I am a masters student at International Max Planck Research School for Computer Science, Germany fascinated and passionate about information retrieval and extraction. I am looking for a team that can provide a sound environment to research, develop, and explore the possibilities of semantic web and deep learning in web search.

Education

2015–Present **Pursuing Masters in Computer Science, IMPRS-CS, Germany**

GPA 1.7 (ECTS grading scale)
Graduate Coursework:
Information Retrieval and Data Mining, Advanced Topics in Information Retrieval, Database Systems, Elements of Statistical Learning, Social Media Analysis, Artificial Intelligence, Statistical Natural Language Processing

2011–2015 **B.Tech. in Electrical Engineering, IIT-(BHU), Varanasi, India**
GPA 8.23/10.0

Publications

2017 Agarwal, Strötgen: *Tiwiki: Searching Wikipedia with Temporal Constraints.* TempWeb'17, Perth, Australia, April 3, 2017.

Work Experience

Currently **Research Assistant, Max Plank Institute for Informatics, Saarbrücken, Germany**
In Databases and Information Systems Department led by Prof. Gerhard Weikum.

Explore and develop applications in the field of temporal information retrieval through TimeSEA.

2015 **Intern, Minewhat Inc.**
As a data science intern, I developed product and category sales prediction models for e-commerce based clients. Subsequently, I developed a checkout prediction model based on customer behaviour and an anomaly detection model to identify interesting peaks in the sales of a product.

2014 **Intern, Wipro Technologies, Bangalore, India**
In WiproSight team led by Mr. Akbar Ladak in Chief Technology Office

Contributed to the development of the next generation e-commerce system by building a facial emotion recognition system using a live video feed.

2013 **Research Intern, IIIT Hyderabad, India**
in LTRC group led by Prof. Deepti Misra Sharma

Developed Hindi language based NLP tools to resolve modifier-antecedent and entity type anaphora-antecedent relations.

Research Projects

Currently **Time in Named Entity Disambiguation**
Guided by Dr. Jannik Strötgen, Dr. Johannes Hoffart, and Prof. Gerhard Weikum

As a part of Master's thesis, currently working on improving the state of the art named entity disambiguation system, AIDA, leveraging temporal context. Additionally, working on to improve the overall system by computing textual context similarity using word embeddings.

2016 **TIWIKI**
In Databases and Information Systems Department led by Prof. Gerhard Weikum

Developed a search engine for retrieving Wikipedia pages based on a query that can be augmented with temporal constraints. For a demo, click on the title

2015 **Anaphora Resolution in the Context of Named Entities**
Guided by Prof. Rajeev Sangal, Director, IIT-(BHU), India

As a part of Bachelors thesis, developed an event type anaphora-antecedent resolution system. Further combined this work with the existing entity type anaphora resolution system and improved the overall performance by adding semantic features. Additionally, studied the importance of context in the task of anaphora resolution.

2014 **Vocaber**
Developed an application to recommend a sentiment score ordered list of synonyms for selected words in a text.

Skills

Languages and Tools: Java, Python, R, ElasticSearch, MongoDB, Apache Spark, Cassandra
Operating Systems: Linux, Windows

Leadership and Miscellanea

Chairman, IEEE IIT-(BHU) for session 2013-14
Chief Event Coordinator of Prastuti'15
Won IEEE Darrel Chong Student Activity Award, 2014 (Gold position).