

# Sudipta Kar

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## EDUCATION

### UNIVERSITY OF HOUSTON | PH.D. IN COMPUTER SCIENCE

Expected Graduation Date December 2019

**Research Interests:** Natural Language Processing, Machine Learning, Deep Learning, Information Retrieval

**Related Courses:** Natural Language Processing, Machine Learning, Deep Learning for Text Analysis and Understanding, Data Mining, Advanced Statistical Methods, Numerical Analysis, Advanced Database Systems, Programming Languages and Paradigm.

CGPA : 3.8 / 4.0

### SHAHJALAL UNIVERSITY OF SCIENCE AND TECHNOLOGY | B.Sc. IN COMPUTER SCIENCE

Thesis Title : Clustering Bengali News Documents

Graduated March'2013 | Sylhet, Bangladesh

## PROFESSIONAL EXPERIENCE

### INTEL CORPORATION | DEEP LEARNING ENGINEERING INTERN

May 2018 - August 2018

- Sentiment analysis of short texts and Aspect Based Sentiment Analysis using Deep Learning.

### UNIVERSITY OF HOUSTON | RESEARCH ASSISTANT

January 2016 - Present | Advisor: Dr. Thamar Solorio

- Stylistic analysis of stories for abstraction of semantics and emotional experiences.
- Book recommendation engine that helps people to find stylistically similar books and the reading experience a book can provide. It's a collaboration with Booxby.com.
- Finding relevant questions and answers in community question answering systems.
- Sentiment Analysis on Financial data.

### UNIVERSITY OF HOUSTON | TEACHING ASSISTANT

August 2015 - December 2015

- COSC 3340/6309: Introduction to Automata and Computability.

### CENTER OF RESEARCH, TESTING AND CONSULTANCY, CSE-SUST | RESEARCHER AND DEVELOPER

July 2013 - July 2015

- **Pipilika Top News** : System to detect the breaking news of current moment from online newspapers and cluster them based on topic. Live at <http://news.pipilika.com>
- Basic NLP tools like POS tagger, keyword extractor, stemmer for Bengali
- Bengali Spell Cheking game **Shobdokolpodroom**

### WEBCRAFT BANGLADESH LTD | PART TIME GAME DEVELOPER

January 2012- June 2012

- Cool Match Madness: Cross-platform mobile game for iOS, Android, and Nexus.

## PUBLICATIONS

1. **Sudipta Kar** ; Suraj Maharjan and Thamar Solorio. **Folksonomication: Predicting Tags for Movies from Plot Synopses using Emotion Flow encoded Neural Network**. In Proceedings of COLING 2018, the 27th International Conference on Computational Linguistics (COLING 2018); Santa Fe, USA.
2. Niloofar Safi Samghabadi; Deepthi Mave; **Sudipta Kar** and Thamar Solorio. **RiTUAL-UH at TRAC 2018 Shared Task: Aggression Identification**. In Proceedings of the First Workshop on Trolling, Aggression and Cyberbullying (TRAC) @ COLING 2018; Santa Fe, USA.
3. Suraj Maharjan, **Sudipta Kar** , Manuel Montes-y-Gómez, Fabio A. González, and Thamar Solorio. **Letting emotions flow: Success prediction by modeling the flow of emotions in books**. In Proceedings of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, New Orleans, Louisiana, June 2018. Association for Computational Linguistics (NAACL 2018).
4. **Sudipta Kar** ; Suraj Maharjan; A. Pastor López-Monroy and Thamar Solorio. **MPST: A Corpus of Movie Plot Synopses with Tags**. In Proceedings of the Eleventh International Conference on Language Resources and Evaluation (LREC 2018).
5. **Sudipta Kar** ; Suraj Maharjan; Thamar Solorio. **RiTUAL-UH at SemEval-2017 Task 5: Sentiment Analysis on Financial Data Using Neural Networks**. In Proceedings of the 11st International Workshop on Semantic Evaluation (SemEval 2017), Vancouver, Canada.
6. Marc Franko-Salvador; **Sudipta Kar** ; Thamar Solorio; Paolo Rosso. **UH-PRHLT at SemEval-2016 Task 3: Combining Lexical and Semantic-based Features for Community Question Answering**. In Proceedings of the 10th International Workshop on Semantic Evaluation (SemEval 2016), San Diego, California.

## PATENT

1. **Book Analysis and Recommendation** US Patent Application 15/782,367

## TECHNICAL SKILLS

**Operating Systems** : Mac OS X, Ubuntu, Windows

**Languages** : Python, Java, C/C++, R, PHP, Javascript, SQL, Lua, Scala,  $\LaTeX$ .

**Libraries and Tools** : Scikit-learn, Keras, Pytorch, NLTK, Weka, CoreNLP, Gensim, Jupyter, Pandas.

## INVITED TALKS

1. Hot Topics in Department, NSM-UH, November 2018
2. Focus on Research, Dept. of Computer Science, UH, November 2018
3. Bengali.ai, October 2018
4. Guest lecture for COSC 6336 (Natural Language Processing), UH, April 2018

## MEDIA COVERAGE

- Featured in KHOU 11 News, December 2018.  
[https://www.youtube.com/watch?v=Ks9DxJ3t6\\_M](https://www.youtube.com/watch?v=Ks9DxJ3t6_M)
- Featured in Graduate Student Achievement, November 2018.  
<http://www.uh.edu/nsm/news-events/stories/2018/1116-perfect-movie.php>
- Interviewed on Jamuna TV for works in Pipilika Bengali Search Engine, June 2014.  
[https://www.youtube.com/watch?v=2ynvf7\\_5DPc](https://www.youtube.com/watch?v=2ynvf7_5DPc)

## ACHIEVEMENTS AND EXTRA CURRICULAR ACTIVITIES

- Co-chair of NAACL' 2019 Student Research Workshop (SRW)
- Recipient of Cullen Travel Grant to attend LREC'2018.
- PC member at the 2018 ACL Student Research Workshop.
- Selected for Facebook Pytorch Scholarship Challenge in Udacity.

- 1st place in SemEval'2016 Task 3 (Community Question Answering)
- 2nd place in SemEval'2017 Task 5 (Fine-Grained Sentiment Analysis on Financial Microblogs and News)
- 4th Place in National Collegiate Software Contest' 2011, Sylhet, Bangladesh
- Participated in National Collegiate Programming Contest' 2010, Sylhet, Bangladesh
- Solved around 150 problems in UVA Online Judge.
- Participated in CITI Financial IT Case Competition' 2011.
- Served as Elected General Secretary of CSE Society, SUST from November'2011 to February'2013.
- Worked as Executive Comity Member from May'2010 – May'2011 and Office Secretary from May'2011 – October'2012 in NONGAR (A Musical Organization in SUST)