

Anurag Roy

COMPUTER SCIENCE GRADUATE, IEST SHIBPUR

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*"Our machines are dumb,
We are just trying to make them less dumb."*

Publications

Information Retrieval from Multiple Sources

A NEW NN MODEL TO RETRIEVE RELEVANT INFORMATION FROM MULTIPLE SOURCES

- Designing a new NN model for retrieval of documents relevant to given queries.
- Coded in Tensorflow(python).
- Short paper accepted at **WWW 2018**.

*Dr. Saptarshi Ghosh, IIT Kharagpur,
Dr. Kripabandhu Ghosh, IIT Kanpur
Dr. Parth Gupta, Amazon India*

March 2017 - Jan 2018

Combining Local and Global Word Embeddings for Microblog Stemming

NEW STEMMING ALGORITHM

- Designing a new stemming algorithm.
- The algorithm can help stem words based on their contextual meaning.
- Short paper accepted at **CIKM 2017**.

*Dr. Saptarshi Ghosh, IIT Kharagpur
Dr. Kripabandhu Ghosh, IIT Kanpur*

Dec. 2016-May 2017

A Novel Word Embedding Based Stemming Approach for Microblog Retrieval

NEW STEMMING ALGORITHM

- Designed a new stemming algorithm.
- The algorithm can help stem words which was not possible by rule based stemming algorithm.
- Short paper accepted at **ECIR 2017**.

*Dr. Saptarshi Ghosh, IIT Kharagpur
Dr. Kripabandhu Ghosh, ISI Kolkata*

Oct. 2016

Microblog Retrieval in a Disaster Situation: New Test Collection for Evaluation

RETRIEVAL OF TWEETS RELEVANT TO A GIVEN TOPIC USING DEEP LEARNING

- Implemented unsupervised deep learning techniques to retrieve topic relevant tweets.
- Paper accepted at **SMERP 2017**.

*Dr. Saptarshi Ghosh, IIT Kharagpur.
Kripabandhu Ghosh, ISI Kolkata*

Jul. 2016 - Oct. 2016

Sleeping Beauties in Computer Science

SLEEPING BEAUTIES IN COMPUTER SCIENCE: CHARACTERIZATION AND EARLY IDENTIFICATION

- Analyzed the patterns followed by sleeping beauties in computer science
- Developed a method to predict sleeping beauties in computer science
- Journal Paper accepted at **Scientometrics 2017**

Dr. Saptarshi Ghosh, IIT Kharagpur

March. 2016 - Exp. Oct. 2017

Projects and Internships

Summer Intern at CNERG, IIT Kharagpur

UNDERSTANDING RELATIVE IMPORTANCE OF CONTENT AND RESPONSES ON COMMUNITY SURVIVAL IN REDDIT.

- Developed an on-line survey application in flask and jinja to create the training set from the reddit data.
- Used machine learning models to evaluate accuracy.

Dr. Niloy Ganguly, IIT Kharagpur

3rd, May. 2016 - 30th, June 2016

Deep Learning in NLP at IIT Kharagpur

DESIGNING AN EFFICIENT BENGALI-HINDI TRANSLATOR USING DEEP LEARNING.

- Implemented Mikolov's recurrent neural network language model in python.
- Implemented a neural machine translation model in python.

Dr. Sudeshna Sarkar, IIT Kharagpur

1st, June 2016 - 1st, July 2016

Winter internship at IEST Shibpur

IDENTIFICATION OF RUMORS IN TWITTER IN REAL-TIME

Developed using python and scikit-learn a program which identified rumor tweets in real-time by learning from previous data.

Dr. Saptarshi Ghosh, IEST Shibpur

2nd, Dec 2016 - 1st, Jan. 2017

Summer Intern at IIT Kanpur

A LANGUAGE INDEPENDENT MORPHOLOGICAL CLUSTERING ALGORITHM

- Designing a new clustering algorithm to capture the morphological variants of a word in a noisy corpus.
- Project still ongoing

Dr. Arnab Bhattacharya, IIT Kanpur,

Dr. Saptarshi Ghosh, IIT Kharagpur,

Dr. Kripabandhu Ghosh, IIT Kanpur

10th, May 2017 -30th, June 2017

Technical Skills

Programming Languages and Tools: C, C++ ,Python, MySQL, SQLite, tensorflow, theano

OPEN-SOURCE CONTRIBUTIONS

TFlearn: Contributed more than 230 lines of code

TECHNICAL PROFILES

Hackerearth: www.hackerearth.com/users/anu15roy

github: <https://github.com/ranarag>

Education

IEST Shibpur

B.E.(HONS.) WITH IN COMPUTER SCIENCE AND TECHNOLOGY

- CGPA(out of 10) 8.13

Howrah, West Bengal

Aug. 2013 - 2017

Army Public School

CLASS XII IN SCIENCE WITH COMPUTER APPLICATION

- 83 % (CBSE)

Ballygunge, Kolkata

The Future Foundation School

CLASS X IN SCIENCE WITH COMPUTER APPLICATIONS

- 92 % (ICSE)

Tollygunge, Kolkata

Work Experience

Polaris Networks

SOFTWARE ENGINEER

- Designed SIP protocol stack for MCPTT(Mission Critical Push To Talk) server tester.
- Designing NAS protocol stack and UE emulator for 5G core network tester.
- Nominated for Star Performer Award for the year 2017

Sector 5, Salt Lake Electronics

Complex, Kolkata 700091

3rd, Jul-2017-23, Jul-2018

CSE, IIT Kharagpur

JUNIOR RESEARCH FELLOW

- Under the supervision of Dr. Saptarshi Ghosh

24, Jul-2018, present

CSE, IIT Kharagpur

PHD

- Broad Research Topic - Multimodal Learning and Retrieval
- Under the supervision of Dr. Saptarshi Ghosh

2, Jan-2019, present