Anurag **Roy**

COMPUTER SCIENCE GRADUATE, IIEST SHIBPUR

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

Publications

Information Retrieval from Multiple Sources

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

A NEW NN MODEL TO RETRIEVE RELEVANT INFORMATION FROM MULTIPLE SOURCES

March 2017 - Jan 2018

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

Combining Local and Global Word Embeddings for Microblog Stemming

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

NEW STEMMING ALGORITHM

Dec. 2016-May 2017

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

A Novel Word Embedding Based Stemming Approach for Microblog Retrieval

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

NEW STEMMING ALGORITHM

Oct. 2016

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

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

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

RETRIEVAL OF TWEETS RELEVANT TO A GIVEN TOPIC USING DEEP LEARNING

Jul. 2016 - Oct. 2016

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

Sleeping Beauties in Computer Science

Dr. Saptarshi Ghosh, IIT Kharagpur

SLEEPING BEAUTIES IN COMPUTER SCIENCE: CHARACTERIZATION AND EARLY IDENTIFICATION

March. 2016 - Exp. Oct. 2017

- 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**

Projects and Internships

Summer Intern at CNERG, IIT Kharagpur

Dr. Niloy Ganguly, IIT Kharagpur

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

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

- 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.

Deep Learning in NLP at IIT Kharagpur

Dr. Sudeshna Sarkar, IIT Kharagpur

DESIGNING AN EFFICIENT BENGALI-HINDI TRANSLATOR USING DEEP LEANING.

1st, June 2016 - 1st, July 2016

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

Winter internship at IIEST Shibpur   *Dr. Saptarshi Ghosh, IIEST Shibpur*

IDENTIFICATION OF RUMORS IN TWITTER IN REAL-TIME   *2nd, Dec 2016 - 1st, Jan. 2017*

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

                                                                         Dr. Arnab Bhattacharya, IIT Kanpur,

Summer Intern at IIT Kanpur   *Dr. Saptarshi Ghosh, IIT Kharagpur,*

                                                                         Dr. Kripabandhu Ghosh, IIT Kanpur

A LANGUAGE INDEPENDENT MORPHOLOGICAL CLUSTERING ALGORITHM   *10th, May 2017 -30th, June 2017*
- Designing a new clustering algorithm to capture the morphological variants of a word in a noisy corpus.
- Project still ongoing

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

IIEST Shibpur   *Howrah, West Bengal*

B.E.(HONS.) WITH IN COMPUTER SCIENCE AND TECHNOLOGY   *Aug. 2013 - 2017*
- CGPA(out of 10) 8.13

Army Public School   *Ballygunge, Kolkata*

CLASS XII IN SCIENCE WITH COMPUTER APPLICATION
- 83 % (CBSE)

The Future Foundation School   *Tollygunge, Kolkata*

CLASS X IN SCIENCE WITH COMPUTER APPLICATIONS
- 92 % (ICSE)

Work Experience

Polaris Networks   *Sector 5, Salt Lake Electronics*
                                                                         Complex, Kolkata 700091

SOFTWARE ENGINEER   *Jul-2017-Jul-2018*
- 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

IIT Kharagpur

JUNIOR RESEARCH FELLOW   *Jul-2018-present*
- Joined for the Epidemiology Data Analysis and Visualization (EPIDAVIZ) Project
- Under the supervision of Dr. Saptarshi Ghosh