

# Anurag Roy

COMPUTER SCIENCE UNDER-GRADUATE AT IEST SHIBPUR

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*"Make the change that you want to see in the world."*

## Projects

### Clustering Techniques

*Dr. Jaya Sil, IEST Shibpur*

ANALYSIS OF VARIOUS CLUSTERING ALGORITHMS

*May. 2015 - Jul. 2016*

- Implemented K means, K median, Hierarchical, parallel K means, DBScan algorithms from scratch in python
- Implemented Dunn Index and Davies index for evaluating the clustering models in python
- Analysed the accuracy of the algorithms on various well-known datasets.

### Twitter Rumor Identification

*Dr. Saptarshi Ghosh, IEST Shibpur*

IDENTIFICATION OF RUMORS IN TWITTER IN REAL-TIME

*Oct. 2015 - Feb. 2016*

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

### Sleeping Beauties in Computer Science

*Dr. Saptarshi Ghosh, IEST Shibpur*

CHARACTERIZING SLEEPING BEAUTIES IN COMPUTER SCIENCE

*March. 2016 - Exp. Oct. 2016*

- Analysed the patterns followed by sleeping beauties in computer science

### FIRE ISI Kolkata

*Dr. Saptarshi Ghosh, IEST Shibpur &*

*Dr. Kripabandhu Ghosh, ISI Kolkata*

RETRIEVAL OF TWEETS RELEVANT TO A GIVEN TOPIC USING DEEP LEARNING

*Jul. 2016 - Exp. Oct. 2016*

- Implemented unsupervised deep learning techniques to retrieve topic relevant tweets.

### Summer Intern at CNERG, IIT Kharagpur

*Dr. Niloy Ganguly, IIT Kharagpur*

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

*May. 2016 - Jul. 2016*

- Developed an online 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 LEARNING.

*Jun. 2016 - Jul. 2016*

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

## Education

### IEST Shibpur

*Howrah, West Bengal*

B.E. IN COMPUTER SCIENCE AND TECHNOLOGY

*Aug. 2013 - PRESENT*

- CGPA 7.9

### Army Public School

*Ballygunge, Kolkata*

CLASS XII IN SCIENCE WITH COMPUTER APPLICATION

- 83 % (CBSE)

### The Fure Foundation School

*Tollygunge, Kolkata*

CLASS X IN SCIENCE WITH COMPUTER APPLICATIONS

- 92 % (ICSE)

## Co-curricular Activities

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### CodeIEST (programming club of IEST Shibpur)

FOUNDER & MACHINE LEARNING HEAD AT 2015

Oct. 2014 - March. 2016

- Founded a programming club at IEST Shibpur, along with 6 others.
- Became the head of Turing Chapter(machine learning chapter) of the club.

### Classified(machine learning event)

INSTRUO 2016, IESTS

ORGANIZER

- Collected twitter data for the contest.
- Cleaned and organized the data into csv files.
- Developed a scoring methodology for the contest.
- Analysed the codes submitted by the participants.

### Robodarshan(Robotics club of IEST Shibpur)

IEST, Shibpur

MEMBER

May. 2014 - Aug. 2015

- Designed a remote controlled Quadcopter.
- Designed a light and line follower.

### Hackerearth Digital India Hackathon

online

CONTESTANT

Jan. 2016

- Participated in the machine learning track of the hackathon.
- Secured a rank of 67 in the hackathon

## Technical Skills

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**Programming Languages,** C, C++ , Java, Python,R, MySQL, SQLite

**Areas of Interest,** Data Science, Information Retrieval, Natural Language Processing, Machine Learning, Deep Learning, Big Data

### TECHNICAL PROFILES

**Hackerrank,** [www.hackerrank.com/ranarag](http://www.hackerrank.com/ranarag)

**Hackerearth,** [www.hackerearth.com/users/anu15roy](http://www.hackerearth.com/users/anu15roy)

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