# Anurag **Roy**

COMPUTER SCIENCE UNDER-GRADUATE AT IIEST SHIBPUR

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

## **Pro**jects

### Clustering Techniques
*Dr. Jaya Sil, IIEST 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 accuraccy of the algorithms on various well-known datasets .

### Twitter Rumor Identification
*Dr. Saptarshi Ghosh, IIEST 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, IIEST 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, IIEST 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 accuraccy.

### Deep Leaning in NLP at IIT Kharagpur
*Dr. Sudeshna Sarkar, IIT Kharagpur*

DESIGNING AN EFFICIENT BENGALI-HINDI TRANSLATOR USING DEEP LEANING.
*Jun. 2016 - Jul. 2016*

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

## **Edu**cation

### IIEST Shibpur
*Howrah, West Bengal*

B.E. IN COMPUTER SCIENCE AND TECHNOLOGY

- CGPA 7.9

### Army Public School
*Ballygunge, Kolkata*

CLASS XII IN SCIENCE WITH COMPUTER APPLICATION

- 83 %

### The Fure Foundation School
*Tollygunge, Kolkata*

CLASS X IN SCIENCE WITH COMPUTER APPLICATIONS

- 92 %

# Co-curricular Activity

### CodeIIEST (programming club of IIEST Shibpur)

FOUNDER & MACHINE LEARNING HEAD AT 2015 *Oct. 2014 - March. 2016*

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

### Classified(machine learning event)

*INSTRUO 2016, IIESTS*

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 IIEST Shibpur)

*IIEST, Shibpur*

MEMBER *May. 2014 - Aug. 2015*

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

### 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

**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

**Hackerearth**,  www.hackerearth.com/users/anu15roy

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