

Arindum Roy

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Education

Georgia Institute of Technology, Atlanta

MASTERS OF SCIENCE IN COMPUTER SCIENCE

Atlanta, Georgia

Aug. 2019 - PRESENT

National Institute of Technology, Rourkela

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

GRE : 331, TOEFL : 112, GPA : 8.61/10

Odisha, India

Jul. 2015 - Jun. 2019

Projects and Internships

Mitacs Globalink Research Internship, University of New Brunswick (Prof. Suprio Ray)

Fredericton, Canada

DEVELOPING A LANGUAGE INTEGRATED QUERYING PROCEDURE USING PYTHON TO EFFICIENTLY PERFORM COMPUTATIONS ON BIG DATASETS (VIEW REPORT)

May 2018 - Jul. 2018

- Integrated the features of database management, i.e. querying on DBMS, with the Data Analytics functionality that Python provides.
- Undertook the added challenge of handling out-of-memory datasets.
- Materialized an approach in which these changes could be applied to existing codebases as well, with minimum code rewriting.

Undergraduate Research Project, NIT Rourkela (Prof. P.K. Sa)

Rourkela, India

PREDICTIVE HEALTHCARE AND DISEASE CONTROL USING DATA ANALYTICS (VIEW THESIS)

Jul. 2018 - May 2019

- Cleaned the Electronic Health Records (EHR) data taken from the records available inside National Institute of Technology and applied unsupervised learning on it.
- Learnt the correlation between commonly prescribed medicines and their diseases, thus helping in drawing up an efficient health budget.

Product Development Laboratory, NIT Rourkela (Prof. P.M. Khillar)

Rourkela, India

DETERMINING FAKE FACTS IN SOCIAL MEDIA USING VARIOUS CLASSIFICATION TECHNIQUES (VIEW REPORT)

Jan. 2018 - Apr. 2018

- Developed an Android application that can be used to determine whether a fact is true or fake.
- With the help of a reputed data set, devised an approach to use an average of various classification algorithms to learn the distinction between fake facts and real facts
- Stored this model on a Raspberry Pi server which could be accessed via an android application which classified it as fake or real.

Product Development Laboratory, NIT Rourkela (Prof. Sambit Bakshi)

Rourkela, India

OPTIONAL ELECTIVE RECOMMENDATION SYSTEM (VIEW REPORT)

Jul. 2017 - Nov. 2017

- Employed a hybrid of content-based and collaborative filtering techniques to recommend various Optional Electives taught in our institute to students, based on their preferences and likes
- Collected data from previous students and applied suitable algorithms on them, so that several problems like the cold-start problem could be tackled.

Summer Research Internship, IIT Kharagpur (Prof. Debasis Samanta)

Kharagpur, India

TEXT-BASED RECOMMENDATION SYSTEM (VIEW CERTIFICATE)

May 2017 - Jul. 2017

- Designed a web based recursive crawler using Python which crawls Google Scholar to download relevant research papers, extracts meta-data from these papers using CRF method of pattern recognition.
- Designed a recommender system that recommends papers to users, based on a set of features(author name, number of citations, author credibility etc) using a machine learning based filtering approach.

Skills

Technical Skills

General Programming : Python, C++, C, Bash, Scala

Big Data Frameworks : Apache Spark, Hadoop, Dask

Client side Web Technologies : HTML, CSS

Server side Web Technologies : Django
Data Mining Frameworks : Scrapy, Apache Tika
Other Software : R, Octave, MATLAB, LaTeX, AutoCAD, SolidWorks

Soft Skills

Quizzing, Debating
Chess, Table Tennis, Rubik's Cube

Achievements

2018	Recipient , Mitacs Globalink Research Scholarship	Fredericton, Canada
2017	Winner , Quirios, The NIT Rourkela National Open Quiz	Rourkela, India
2015	Recipient , Academic Excellence Award for outstanding performance in Senior Year, High School	Bhubaneswar, India
2013	Recipient , Academic Excellence Award for outstanding performance in Sophomore Year, High School	Bhubaneswar, India
2012	Finalist , MaRRS International Spelling Bee	Kuala Lumpur, Malaysia

Extracurricular Activity

D361, the official student magazine of NIT Rourkela

EDITOR-IN-CHIEF

Rourkela, India
Sep. 2017 - Aug. 2018

- Brought out 5000 copies of the D361 magazine for the NIT-R population.
- Organized writing competitions throughout the institute.

Clarion, The Official Literary and Debating Club of NIT Rourkela

CORE MEMBER & SECRETARY IN 2017

Rourkela, India
Sep. 2015 - May 2019

- Participated in several parliamentary debate competitions across India.
- Organized the NIT-R National Parliamentary Debate 2017, which saw participation from all over the country.
- Organized all the literary events inside the institute for the academic year 2017-18.

Inquizzitive, the Quizzing Society

MEMBER

Rourkela, India
Sep. 2015 - May 2019

- Won the First Prize at Quirios 2017, the National Level General Quiz.
- Organized several national level quizzes as part of the organizing team of Inquizzitive.

Leo, the Youth Wing of Lion's International Social Service

MEMBER

Rourkela, India
Sep. 2015 - May 2019

- Organized Rhapsody, which is a talent hunt competition, for children from schools across Rourkela.
- Organized shows for people of Home and Hope old age home on the occasion of Diwali.

Cyborg, The Technical and Automation Club of NIT-R

MEMBER

Rourkela, India
Sep. 2016 - May 2019

- Helped in designing the D361 website.
- Took part in various coding competitions across India.