

Arka Talukdar

Junior, Computer Science, BITS Pilani, India
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EDUCATION

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI

BE(HONS) IN COMPUTER SCIENCE
 Expected May 2019
 CGPA: 8.38

BIRLA HIGH SCHOOL, KOLKATA

Grad. May 2015 | Kolkata, India (CBSE XII)
 AICBSE: 94%

FRANK ANTHONY PUBLIC SCHOOL, KOLKATA

Grad. May 2013 | Kolkata, India
 ICSE: 94%

LINKS

Github:// [atalukdar](https://github.com/atalukdar)
 LinkedIn:// [arkatalukdar](https://www.linkedin.com/in/arkatalukdar)

COURSEWORK

UNDERGRADUATE

Information Retrieval
 Operating Systems
 Data Mining
 Data Structures and Algorithms
 Digital Design
 Microprocessor and Interfacing

MOOC

Machine Learning
 Neural Networks
 Deep Learning in Natural Language Processing

SKILLS

PROGRAMMING

Java • Python • Shell
 Django • TensorFlow • Keras
 C • Assembly

Familiar:

Jekyll • Android • MySQL •
 Rails • JavaScript • Matlab
 CSS • MaterializeCSS • d3.js

RESEARCH

WEB INTELLIGENCE & SOCIAL COMPUTING LAB | UNDERGRADUATE RESEARCHER

May 2017 – Present | Pilani, India

- Worked on Crisis Tweet classification with respect to 2015 Nepal Earthquake. The task involved identification of multilingual tweets that request help and those that provide aid. Tweets from victims seeking help were identified and matched with tweets providing suitable help. Results of the work has been accepted at **FIRE, 2017** to be held at IISc Bangalore in December 2017.
- Worked on Sentiment Analysis of tweets in Indian languages using word-embeddings and LSTM based RNN architecture on SAIL 2015 dataset.

BIO-MEDICAL INFORMATICS CENTER, ICMR, KOLKATA | SUMMER RESEARCH INTERN

Summer 2016 | Kolkata, India

- Developed a classifier to identify Adhesin proteins from FASTA sequence. Used supervised machine learning algorithms.
- Adhesin proteins are used in vaccines and their identification through statistical method shortens the time required to develop vaccines.
- Developed web server using Django that makes the classifier accessible to the bioinformatics community.

EXPERIENCE

AMBER SMART WAREHOUSE | AGRO-TECH START-UP

March 2017 - Present | Pilani, India

- Amber aims to reduce the huge loss of grains due to pests in Indian warehouses and improve the management of grains using wireless sensors. Joined Amber as a founding member.
- Developed the entire webserver that collects the data from sensors connected via WiFi. Used d3.js to create data visualizations for clients.
- Presently working on the time series data collected from prototypes in Food Corporation of India (FCI) godowns.

WEST BENGAL STATE E-GOVERNANCE MISSION | INTERN

Summer 2017 | WEBEL, Kolkata, India

- Worked on Government Process Reengineering (GPR) in the processes of Calcutta High Court. It included digitizing and simplifying the process of nearly 80 departments of the High Court.
- Sentiment analysis of tweets and comments (in the app store) about government apps and their public perception about each application over time.

AWARDS

2014 National KVPY Fellow, Department of Science & Technology, Govt of India
 2011 National NTSE Scholar, Awarded by NCERT, Govt of India

ORGANIZATION

2017-18 Secretary ACM Student Chapter BITS Pilani
 Since 2015 Member ACM Student Chapter BITS Pilani
 2015-16 Member BITS MUN