

# Arka Talukdar

Junior, Computer Science, BITS Pilani, India

<http://atalukdar.github.io>

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## EDUCATION

### BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI

BE(HONS) IN COMPUTER SCIENCE

Expected May 2019

CGPA: 8.4

### 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)

## PUBLICATION

Information Retrieval from Microblogs during Disasters, FIRE, 2017

## COURSEWORK

### UNDERGRADUATE

Information Retrieval

Parallel Computation

Data Mining

Quantum Computing

### MOOC

Machine Learning

Neural Networks

Deep Learning in Computer Vision

Deep Learning in Natural

Language Processing

## SKILLS

### PROGRAMMING

Java • Python • Shell

Django • TensorFlow • Keras

C • Assembly

## RESEARCH

### WEB INTELLIGENCE & SOCIAL COMPUTING LAB | UNDERGRADUATE

#### RESEARCHER

May 2017 – Present | Pilani, India

- Presently working on poetry generation from images using Deep Learning. Input images are passed through image captioning CNN to generate words describing the image. These words are used by LSTM to generate a short poetry.
- 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. Published at FIRE, 2017.

### 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

### WEST BENGAL STATE E-GOVERNANCE MISSION | INTERN

Summer 2017 | WEBEL, Kolkata, India

- Developed bio-metric attendance system through Facial Recognition using VGG-16 network architecture.
- Sentiment analysis of tweets and comments( in the app store) about government apps and their public perception about each application over time.

### 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.

## AWARDS

2017	National	Runner-Up, India Israel Innovation Challenge, Govt of India & Israel
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