

Amitabha Dey

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EDUCATION

- **BRAC University** Dhaka, Bangladesh
Bachelor of Science in Computer Science; GPA: 2.80 (75%) *Fall 2013 – Spring 2018*
Java Programming (3.7), Data Structures (3.3), Statistics and Probability (4.0), Numerical Methods (3.3), Operating Systems (3.3), Database Systems (3.0), Computer Networks (3.3), Software Engineering (3.3), Web Programming (3.3), Android Programming (3.3), Microeconomics (3.7), Mathematics for Business and Economics (4.0), Chinese (4.0), French (3.3)
- **Edexcel IGCSE** Sylhet, Bangladesh
Anandaniketan School *2010 – 2011*
Pure Maths (A*), Mathematics (A*), Chemistry (A*), Physics (A*), Economics (A), Bengali (A), English (A)
Received The National Daily Star Award for IGCSE results

WORK EXPERIENCE

- **DevResonance Ltd.** Dhaka, Bangladesh
Research Officer *March 2018 - June 2018*
 - **Bangladesh MOHFW:** Maintained and organized spreadsheets of operational plans and their agendas of Health Ministry, maintained metadata repositories, and cross-reference indexes
 - **IEC and BCC materials:** Researched and compiled gender sensitive IEC and BCC materials, studied and analyzed existing gender frameworks
 - **Green construction materials:** Researched and prepared report on the increasing consumption of alternative bricks as opposed to traditional brick kilns
 - **Voice and Accountability in Health Sector:** Prepared reports, worked with various statistical models, interpreted quantitative data
- **Redgreen Corporation** Dhaka, Bangladesh
Digital Marketing Intern *July 2017 - September 2017*
 - **eStore10.com:** Worked on the management team of an e-commerce platform. Developed negotiating strategies; developed and negotiated contracts; maintained communication with business operations.
- **Durbar Softwares** Dhaka, Bangladesh
Creative Intern *January 2015 - December 2016*
 - **Design Team:** Contributed with creative solutions to private enterprises, Ministry of Health and Family Welfare (MOHFW), Government of Bangladesh; created design materials, like UI, brochures, logos, etc., to serve different agendas as requested by private clients.

PROGRAMMING SKILLS

- **Languages:** Python, Java, SQL, HTML, CSS, JavaScript, PHP
- **Packages:** Pandas, Numpy, Scikit-learn, Matplotlib, TensorFlow, NLTK, BeautifulSoup

PROJECTS

- **Fruits Classification:** model: sklearn decision tree, 2 features, 2 labels, 5 samples
- **Iris Classification:** model: sklearn decision tree and k nearest neighbors, 4 features, 3 labels, 150 samples
- **KNN classifier:** built from scratch, prediction accuracy of Iris dataset over 90%
- **Image classification:** built an image classifier on top of Googles Inception using TensorFlow
- **Twitter Sentiment Analyzer:** tweepy API, used textblob to find out polarity and subjectivity score of tweets
- **Smart Home Assistant:** voice controlled program; functionality: send emails, search and play songs on youtube, search images on google, get updated weather report, report time and date, tell random jokes or quotes, report breaking news; used pyttsx3 and speech recognition library
- **Real Estate Webscraper:** parses website and scrapes data; collects apartment numbers, details and flat prices

EXTRA-CURRICULAR ACTIVITIES

- **BRAC University Computer Club** Dhaka, Bangladesh
Director, Marketing 2013 - 2018
It is the largest student-run club at my university. My responsibility has always been to build a dynamic team and help them focus on their strengths. I have been constantly part of an amazing team that helped organize many conference and hands-on workshops in my campus over the years for the students.
- **Arduino Bangladesh** Dhaka, Bangladesh
Campus Ambassador 2014 - 2016
Created a bridge between Arduino enthusiastic students and companies who commercially manufacture Arduino boards and components. Notable events and workshops:
 1. Head-First Arduino 2015
 2. Arduino Day 2015
 3. Head-First Arduino S02 2016
 4. Genuino Day 2016
- **Droidcon Dhaka** Dhaka, Bangladesh
Campus Ambassador 2016
Informed and encouraged students to participate in a paid event. We had over 200 participants.
Droidcon Dhaka 2017 campaign:
<https://www.facebook.com/events/117721522062494/>
- **BRACU ACM** Dhaka, Bangladesh
Convener 2014 - 2017
Helped facilitate and organize hackathons and programming competitions.
- **Cloudcamp Bangladesh** Dhaka, Bangladesh
Volunteer 2014 - 2015
Major events:
 1. Beautification of a Primary School, 2014
 2. Titanium Conference for Mobile Application Development, 2015
 3. CloudCamp Bangladesh at Digital World, 2015

CONFERENCE PUBLICATIONS

- **Fake News Pattern Recognition using Linguistic Analysis:** Accepted in 7th ICIEV (International Conference on Informatics, Electronics Vision) 2nd IVPR (International Conference on Imaging, Vision Pattern Recognition) conference in Japan.

NEWSPAPER PUBLICATIONS

- **Arduino Day 2015 - Shout, The Daily Star:**
<http://www.thedailystar.net/shout/arduino-day-2015-76061>
- **Skyping for Success - TMAG, Dhaka Tribune (Page - 8):**
<https://issuu.com/dhakatribune/docs/140527134521-add5496115594ba49ce81d1932a4f0d4>

MEDIUM PUBLICATIONS

- **Data Preprocessing for Machine Learning:** Data Driven Investor, July 2018
- **ML Model: Simple Linear Regression:** Data Driven Investor, July 2018
- **ML Model: Logistic Regression:** Data Driven Investor, August 2018
- **How to become a Data Scientist:** Coinmonks, August 2018
- **Building an Image Classifier using TensorFlow:** Data Driven Investor, August 2018