# Raghav Prasad

Computer Science, BITS-Pilani, K.K. Birla Goa Campus

Mumbai

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## Education

B.E. Computer Science and Engineering

Birla Institute of Technology and Science - Pilani

2017 - Present

CCDA: 0.47

ISC (Class XII)

CGPA: 9.47

2014 - 2016

The Cathedral and John Connon School

92 69

ICSE (Class X) 2012 - 2014

The Cathedral and John Connon School

96%

#### Courses

Completed: Object-Oriented Programming, Discrete Structures for Computer Science, Logic in Computer Science, Database Systems, Data Structures and Algorithms, Microprocessors and Interfacing, Digital Design

Ongoing: Neural Networks and Fuzzy Logic, Introduction to Cognitive Neuroscience, Operating Systems, Theory of Computation, Computer Architecture, Principles of Programming Languages, Automated Theorem Proving

#### Skills

Java, Python

C

Shell scripting, Git, Docker, SQL

Swift

Javascript, Ruby on Rails, HTML+CSS



### Work experience

# Software Development Intern

May 2019 - July 2019

Jan 2019 - Mar 2019

Aug 2019 - Present

Homi Bhabha Centre for Science Education

I was part of a 4-member team working on a "Topic Organizer" for HBCSE's Discourse based platform, STEMGames.

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Centre for Technical Education, BITS Goa

I was the instructor for the course, Introduction to Linux, conducted by the CTE in my college

Teaching Assistant

Birla Institute of Technology and Science - Pilani CS F213 - Object-Oriented Programming

Chegg CS expert 2018 - Present

Chegg

I am a verified CS expert on the online platform, Chegg. My role involves going through unanswered questions in the domain of Computer Science, posed by students and answering them in a comprehensive manner.

#### Teaching Assistant, Quark Summer Technical Projects

May 2018 - July 2018

Quark

I was the teaching assistant for a remote course entitled Introduction to Python, conducted under the ambit of Quark, my college's technical fest. I was a mentor to 65 students.

# **Projects**

## Domain: Web Development

May 2019 - July 2019

Discourse Topic Organizer

A plugin for any Discourse-based platform, which provides an interface for staff and admins to organize topics. This was designed for STEMGames with the vision of using a Discourse instance as an LMS. The project was completed successfully. I am currently still in touch with the team at Homi Bhabha Centre for Science Education, maintaining and upgrading this.

#### Domain: Deep Learning, NLP

July 2018

Sentiment Analysis

Ternary classification problem. Dataset was a set of Yelp! reviews in three classes: **positive**, **negative** and **neutral**. My team was ranked 13th in the leaderboard with an accuracy of **87.7%**. We used a variety of Deep learning techniques such as CNNs and RNNs as well as simpler techniques such as Naive Bayes'. The best accuracy was produced by a CNN approach while Naive Bayes' finished a close second.

### **Domain: Economics and Data Analytics**

Jan 2019 - Apr 2019

Economic Time Series Analysis for the state of Goa

An analysis of macroeconomic data for the state of Goa using **Python** in conjunction with **pandas** and **matplotlib**. Several trends obtained from real data corroborated theoretical predictions.

#### Domain: iOS app development using Swift

DoJMA iOS app

As part of the Mobile Application Club in my college, I co-created an iOS app for the college's Department of Journalism and Media Affairs (DoJMA). It not only serves as a platform for DoJMA but is also a one-stop solution for everything campus-related.

## **Conferences and Workshops**

#### **Organiser: Corporate Gurukul**

June 2018

Global Academic Internship Program

A 3-week long academic internship program at NUS focused on Machine Learning, Deep Learning, and Big Data Analytics

#### Organiser: Imperial College, London

July 2015 - August 2015

London International Youth Science Forum

A 2-week long youth science forum hosted at Imperial College, London. I was 1 of 8 people representing India among over 60 other nations

### Organiser: Japan Science and Technology Agency

May 2015

Sakura Science Program

An exchange program to Japan. Specifically the Ritsumeikan University and the University of Tokyo, along with visits to various other labs and facilities.

## Certifications

## Certificate in Network Management, certified by Nettech

# Scholarships

### Institute Merit Scholarship for Semesters I, II, and III

The Institute's Merit Scholarship is awarded to the top 1% of the students. Tuition fee waivers of 80%, 80%, and 100% respectively

#### **Examinations**

JEE (Advanced)

April 2017

99.5 percentile

BITSAT April 2017

335/450

## **Extracurriculars**

- Cricket captain: Captained my high school cricket team and shouldered cricket-related administrative responsibilities
- Peer Mentorship Program mentor: Mentored a group of 12 freshmen students through academics and college life.
- Chess: I am an adept chess player, having played at the district level.
- Guitar and music composition: I am a capable guitarist with a flair for music composition. I have been playing for close to 4.5 years.

## **Communication Languages**

English (fluent), Hindi (fluent), Malayalam (Fair)