



Raghav Prasad

3rd-year, Computer Science, Birla Institute of Technology and Science, Pilani - K.K. Birla Goa Campus.

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Education

B.E. Computer Science and Engineering

2017 - Present

[Birla Institute of Technology and Science, Pilani](#)

CGPA: 9.47, Expected graduation: August 2021

ISC (Class XII)

2014 - 2016

[The Cathedral and John Connon School](#)

Result: 92.6%

ICSE (Class X)

2012 - 2014

[The Cathedral and John Connon School](#)

Result: 96%

Courses

Completed: Probability and Statistics, Mathematics-I (Integral Calculus), Mathematics-II (Linear Algebra), Mathematics-III (Differential Calculus), Object-Oriented Programming, Discrete Structures for Computer Science, Logic in Computer Science, Database Systems, Data Structures and Algorithms, Microprocessors and Interfacing, Digital Design, Neural Networks and Fuzzy Logic, Introduction to Cognitive Neuroscience, Operating Systems, Theory of Computation, Computer Architecture, Principles of Programming Languages, Automated Theorem Proving

Ongoing: Computer Networks, Design and Analysis of Algorithms, Compilers, Quantum Information and Computing, Foundations of Data Science

Skills

Java, Python, C

Shell scripting, Javascript, Ruby, HTML+CSS, Swift, Verilog

SQL, Git, Docker, UNIX/Linux

Work experience

Software Development Intern

May 2019 - July 2019

[Homi Bhabha Centre for Science Education](#)

I was part of a 4-member team assigned a web-development project to create a "Topic Organizer" plugin for HBCSE's [Discourse](#) based platform, [STEMGames](#).

Teaching Assistant

Jan 2020 - Present

[Birla Institute of Technology and Science, Pilani](#)

I am a TA for the course **Computer Programming** under [Prof. Bharat M. Deshpande](#). In addition to mentoring the students, I am actively involved in the weekly laboratory sessions, formulating answer/solution keys for the questions designed for the labs.

Teaching Assistant

Aug 2019 - Dec 2019

[Birla Institute of Technology and Science, Pilani](#)

I am a TA for the course **Object-Oriented Programming**, under Prof. [Neena Goveas](#). I am actively involved in the design of questions for the weekly labs as well as the evaluation process.

Instructor

Sep 2019 - Present

[Centre for Technical Education, BITS Goa](#)

I am one of three instructors for the course, **Introduction to Linux, Python and R**, conducted by the Centre for Technical Education (CTE) in my college. I am in-charge of the **Linux** and **Python** modules, whereas the other two instructors teach R.

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: Deep Learning, NLP, Image Analysis

Nov 2019

[Meme Sentiment Analysis](#)

The objective of this project was to predict the sentiment, offensiveness and motivation quotient of the meme given the image and caption of the memes, using a **multimodal deep learning model**. The motivation label had 2 classes, the sentiment label had 5 classes and the offensiveness label had 4 classes.

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: Computational Biology and Biomedical Image Analysis

Sep 2019 - Present

[A study of progression of Alzheimer's Disease using advanced graph theoretical analysis](#)

The aim of this project is to design a data-driven approach to understand and analyze brain networks with respect to certain network metrics. These metrics are then correlated with results of standardized tests designed to gauge cognitive function.

Domain: iOS app development using Swift

Sep 2018

[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 using Hadoop

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, III and IV

The Institute's Merit Scholarship is awarded to the top 1% of the students.

Research Interests

Computational Neuroscience, Deep Learning

Communication Languages

English (fluent), **Hindi** (fluent), **Malayalam** (fair)