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: **P**robability and Statistics, **M**athematics-I (Integral Calculus), **M**athematics-II (Linear Algebra), **M**athematics-III (Differential Calculus), **O**bject-Oriented Programming, **D**iscrete Structures for Computer Science, Logic in Computer Science, **D**atabase Systems, **D**ata Structures and Algorithms, **M**icroprocessors and Interfacing, **D**igital Design, **N**eural Networks and Fuzzy Logic, **I**ntroduction to Cognitive Neuroscience, **O**perating Systems, **T**heory of Computation, **C**omputer Architecture, **P**rinciples of Programming Languages, **A**utomated Theorem Proving

Ongoing: **C**omputer Networks, **D**esign and Analysis of Algorithms, **C**ompilers, **Q**uantum Information and Computing, **F**oundations 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