Pranav Ballaney

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Education

• Birla Institute of Technology and Science, Pilani

Bachelor of Engineering (Hons.) in Computer Science Master of Science (Hons.) in Biological Science

Cumulative CGPA: 9.25

• Delhi Public School, Lucknow

All India Senior Secondary Certificate Examination

Percentage: 89.6%

Goa, India August 2018 to August 2023 (expected)

Last updated: 16 November 2020

Lucknow, India Graduated May 2017

Work Experience

Debian
 Student Developer under the Google Summer of Code program
 Worked on quality assurance and continuous integration of

applications in life sciences and medicine.

May 2020 – August 2020

(Link to Project)

Research Experience

• iGEM Competition 2020, BITS Goa

Member of the Wet Lab, Human Practices and Software Teams

November 2019 – November 2020 (*Link to Project*)

Worked under the supervision of Dr. Sumit Biswas, as part of the first iGEM team from BITS Goa, on reduction of post-harvest losses in sugarcane, by using genetically engineered bacterial systems.

• CSIR-Institute of Genomics and Integrative Biology
Research Intern

May 2020 – June 2020

Worked under the guidance of Dr. Lipi Thukral, Senior Scientist at the Computational Structural Biology lab, to quantify interactions between the SARS CoV2 spike glycoprotein and the human ACE2 receptor. Built visualizations using comparative force-directed graphs to understand these interactions.

• Study Oriented Project

January 2020 - April 2020

Worked under the supervision of Dr. Sumit Biswas, on tissue-specific re-evaluation of the efficacy of MicRoOn in identifying miRNAs associated with cancer, using machine learning techniques.

Projects

iGEM WikiSync and the iGEM Wiki Starter Pack

Python and Node.js applications designed to help iGEM teams build their wikis. Adopted by several iGEM teams throughout the competition season.

June 2020 – August 2020

iGEM WikiSync iGEM Wiki Starter Pack

Certifications

• **Deep Learning Specialization** deeplearning.ai on Coursera

May 2019 (<u>Certificate</u>)

Skills

Languages Python, C, C++, HTML, CSS, JavaScript, Bash

Frameworks Flask, jQuery, NumPy, Pandas, Scikit-Learn, ProDy

Bioinformatics Protein modelling, docking and secondary structure prediction

Relevant Courses

Biology Biochemistry, Microbiology, Cell Biology, Molecular Biology, Bioinformatics

and Genetics, Recombinant DNA Technology, Animal Physiology

Mathematics I (Multivariable and Vector Calculus), Mathematics II (Linear

Algebra and Complex Analysis), Mathematics III (Differential Equations),

Probability and Statistics

Computer Science Object Oriented Programming, Discrete Structures for Computer Science, Logic

in Computer Science

Other Experience

• Peer Mentor as a part of the Peer Mentorship Program at BITS Pilani, helping students navigate through college and looking after their academic and personal interests.

Scholarships and Awards

- Received institute scholarship at BITS Pilani for each semester in college.
- Received a Letter of Appreciation from Union Minister of Education for obtaining a CGPA of 10 in 10th Standard Board Examinations.

Extra-curricular Activities

- Core member at Synchronoise, the BITS Goa a cappella club
- Core member at Srutilaya, the BITS Goa classical music club