

Sumanyu Ghoshal

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Education

Indian Institute of Technology Bombay

Powai, Mumbai 400 076, India

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING (GRADE:9.84/10)

2018 - 2022

Academic Achievements

- | | | |
|---------|--|-------------------|
| 2019 | Institute Academic Prize , Indian Institute of Technology Bombay | Mumbai, India |
| 2018 | All India Rank 160 , JEE Advanced (out of 200,000+ candidates) | IIT Kanpur, India |
| 2015 | National Finalist , Computer Society of India Young Talent Search in Computer Programming Contest | Chennai, India |
| 2013-18 | TIPster , Duke University (Awarded to the top 0.5%ile of applicants in India) | Durham, NC, USA |

Projects

Face Recognition and Autonomous Mapping Robot (<https://github.com/tech-chef/Main>)

IIT Bombay

INSTITUTE TECHNICAL SUMMER PROJECT - 2019

Summer 2019

- Designed a robot using raspberry pi 3b+ with a facial recognition module implementing the LBPH algorithm using OpenCV
- Implemented mapping of regions and finding out the point-to-point shortest path using SONAR scanners and Wavefront algorithm

Automation of Splitting of expenses (<https://github.com/samadkoita/BOIS-Splitwise>)

IIT Bombay

PROF. AMITABHA SANYAL

Autumn 2019

- Developed a django web app to automate the addition and splitting of bills amongst various stakeholders
- Designed an SQL-based database in order to efficiently implement a feature to settle-up expenses similar to the Splitwise app
- Provided dedicated insights on the kinds of expenditure made by each user using javascript

Dead-end Roads

IIT Bombay

PROF. AJIT DIWAN

November 2019

- Designed an algorithm to determine the roads which always lead to a dead end by simply comparing the out-degree of each node
- Developed a code in c++ to figure out the longest dead end in the graph with $O(n+m)$ time complexity using the algorithm designed

A portal to Select and Evaluate Teaching Assistants

IIT Bombay

UNDERGRADUATE ACADEMIC COUNCIL

June 2019 - Ongoing

- Currently designing a django - based web application to create a portal for professors to select, and then evaluate the teaching assistants
- Involved in the conceptualization of the product. Interacted with various professors and heads of departments to understand their requirements

Internship

Worxogo Solutions Pvt. Ltd

Bengaluru, India

SOFTWARE DEVELOPMENT INTERN

July - September 2019

- Developed a program to automate the nudges sent to the senior management of clients on python
- Implemented OpenPyXL library to import data and export information to excel sheets
- Created a Graphical User Interface (GUI) for the program using the Tkinter library

Positions of Responsibility

Student Alumni Relations Cell, IIT Bombay

Mumbai, India

TEAM MEMBER, ALUMNI STUDENT MENTORSHIP PROGRAM

April 2019 - Present

- Working on a team of 7 to co-ordinate with a pool of above 300 alumni with industrial or research background
- Co-ordinating with a mentee pool of above 500 students to ensure a strong mentor-mentee relationship
- Implementing events like Breaking the Ice and Shadow Program for improving the student-alumni relations

Technical Skills

Programming and Software Development
Web Development
Analytics and Computer Vision

C++, C, Python, Java, Bash, Git
HTML, CSS, JavaScript, Django, SQL
Matlab, Octave, Numpy, Scipy, Matplotlib, OpenCV(Basics), TensorFlow(Basics)