

HIMANSHU BHUSHAN BALASAMANTA

ACADEMIC PROFILE

Degree/Certificate	Institution	Percentage/CGPA	Year
B-Tech	Electrical Engineering IIT (BHU), Varanasi	8.39	2022
Goa Board Of Sec. & H.Sec. Edu (XII)	MUSHTIFUND ARYAAN HIGHER SECONDARY	86.83	2018
Goa Board Of Sec. & H.Sec. Edu (X)	BHATIKAR MODEL HIGH SCHOOL	91.00	2016

SKILLS

Languages

- C, C++, Java, Python

Intrests

- Algorithmic Programming, Data Structures, Web Development, Deep Learning

Technologies

- React, Django, Open CV, Operating Systems, Git, Github, Agile, VS Code, Eclipse

PROJECTS

Google Summer Of Code

June 2020 - August 2020

Spending this summer Contributing code to the most widely used Java IDE

- Increased flexibility and versatility of the java widgets of the fourth most widely used java widget library, ie. SWT.
- Implemented the changes made in the widget library into a charting library (SWTChart) for the purposes promotion of the widget library and the improvements made.
- Single-handedly migrated a sub repository (Linux Tools) into a centralised repository (SWTChart) and handled dependent library requests for the same.
- [Description](#), [expirience](#) and [Github Link](#) of my work.

PIXELATE

JAN 2019

Used Image Processing to guide the bot in shortest time to the target.

- Open CV to capture bot position and direction at regular intervals.
- BFS Algorithm to find shortest path to target.
- Arduino programming required for bot navigation was provided through interface in Python.

Human activity recognition system

JAN 2020 - MAR 2020

Used Deep Learning to categorise activity into Six Categories taking the input from gyroscopic accelerations of the Android Device.

- 2 Convolutional Layers followed by 2 Dense Layers were used in the CNN model.
- Dropout layers were added after each Layer, along with relu activation.
- TensorFlow Lite API was used for Incorporating the Model to Android Studio.

HONOURS AND ACHIEVEMENTS

NTSE Scholarship

MAY 2016

- Among the top 775 across the country who were awarded the scholarship.

JEE

2018

- Achieved an AIR of 2503 in JEE advanced.
- Achieved an AIR of 5851 in JEE mains.

EXTRA-CURRICULAR ACTIVITIES

Member of COPS (Institue Programming club)

APRIL 2020 - PRESENT

Actively involved in passing of programming knowledge to students

- Organised the annual online summer workshop of the club (CSOC) for this year.
- **Mentored** juniors new to programming and development, by guiding them, clearing their doubts and fixing bugs.

Organised YES!+ course of Art of Living

3rd SEPT 2019- 7th OCT 2019

- A total of 7 volunteers were involved in the organisation and maintenance of the programme.
- Collected funds were sent to the Art Of Living Centre.

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