

Nilarnab Debnath

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EDUCATION

Institute	Level	Date of Graduation	GPA or Percentage
Malaviya National Institute of Technology, Jaipur, (MNIT)	Bachelor of Technology	2023 (<i>expected</i>)	9.67/10
Sacred Heart Children Senior Secondary School,	12th CBSE board	2019	91.8/100
Sri Krishna Mission School, Agartala	10th CBSE board	2017	10/10

TECHNICAL KNOWLEDGE

Languages:	Python 3, PHP, MySQL, C, C++, HTML5, CSS3, java
Concepts:	Webscraping, k-NN
Tools:	Pycharm, Python Shell, Android Studio, PhpMyAdmin, Visual Studio(Editor), DevC++, Brackets, Firebase
Libraries	Pyautogui, Python Imaging Library, Webbrowser, keyboard, Tesseract, OpenCV, pandas, numpy, scikit-learn, ezdxf

INTERSHIPS:

- Two month intern in Pillarplus Private Limited, as Python Development Intern (21 May 2020 - 21 July 2020)

ACADEMIC PROJECTS

Major Project:

HOPE (an NGO)'s PORTAL (currently in production level)

- A group project with a team size of eight to keep record of all the activities in the NGO and also takes care of data gathering making all the works of the NGO easier.
- Tech stack: PHP, MySQL, bootstrap 4, html, css, github
- Also the admin of the portal
- link: <https://www.hopeeverywhere.live/>
- team: <https://www.hopeeverywhere.live/team.php>

Other Projects:

Python mailer bot to multiple addresses:

- Mailer bot that mails to all the addresses by making mail addresses from the college ids received as input
- Tech stack: python 3
- input: takes data as excel sheet, reads the data mails accordingly

Automated Surveillance System

- This is an automated surveillance system made to work with the collaboration of CCTV feed to detect if any door is opened.
- A white sheet of paper is fitted on the door to be observed. The program detects the number of distinct pixel values in the part of the door where the paper is fitted. If the door is opened, the paper is also moved with the door, bringing about a change in the number of unique pixel values which is detected to raise an alarm.
- It detects the number of unique pixel values by **Python Imaging Library**.
- The program also takes a photo of the situation in order to capture the burglar and sends an email with the photograph to the authorised person.

Data gathering from excel sheet, analysis and visualisation (Data of hotel ratings in a country)

- Data of all the all the hotels and their ratings are received as input, from which all the ratings are gathered in unordered form
- All the data is ordered according to their ratings
- A bar graph is produced by **matplotlib** to show the data

GMessenger (Android Application)

- GMessenger is an application to send messages in a group.
- Works by **FireBase Realtime Database** in order to store messages in the cloud.
- Has added features like sending messages as anonymous, sending messages with a tag "important"

Realtime Fundraiser's Database (Android Application)

- Keeps Realtime record of the fund raised by a fundraiser team
- The fundraiser puts her received cash in the application and the data is stored in **FireBase Realtime Database**.
- The application shows how much in total is raised by all the team, individual and a leaderboard showing rank wise received amount of each team

Positions of Responsibility

- H.O.P.E: Hope of People Everywhere (NGO): As a member of the Fundraising vertical in HOPE, worked in collecting funds from the people visiting the nearby shopping malls for the underprivileged children.
- As a member of H.O.P.E.(NGO) worked in Poster making by Photoshop for launching fellowship for underprivileged students.

Extra-Curriculars

- Ankan-Bivakar in Painting
- Ankan-Sree in Art and Crafts
- Got coaching of badminton from Netaji Subhas Regional Coaching Center, Agartala.