

Nilarnab Debnath

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EDUCATION

Institute	Level	Year of Graduation	CGPA or Percentage
Malaviya National Institute of Technology, Jaipur (MNIT)	Bachelor of Technology	2023	9.31/10
Sacred Heart Children Senior Secondary School, Kota, RJ	12th CBSE board	2019	91.8
Sri Krishna Mission School, Agartala	10th CBSE board	2017	10/10

TECHNICAL KNOWLEDGE

Languages: HTML5, CSS3, JavaScript, PHP, MySQL, python, c, c++, java .
Concepts: Web development, RDBMS, Webscraping, k-NN.
Tools: Tailwind CSS, Ajax, PyCharm, Android Studio, PhpMyAdmin, Visual Studio, DevC++, Brackets, Firebase.
Libraries: ezdxf, Python Imaging Library, Pyautogui, pandas, numpy, Webbrowser, keyboard, OpenCV, scikit-learn, Tesseract.

INTERSHIPS

Software Developer Summer Intern, PillarPlus Pvt Ltd

May'21 - Jul '21

- Worked on architectural design automation using python libraries, mathematical formulas and logics.
- Used **ezdxf** library in order to auto detect blocks in dxf file, automate the connection making in building wiring system in the plan, visual representation of switch board in dxf files and automation of drawing of plumbing lines in the front view.
- Used math, numpy, **ezdxf** libraries in order to find the best mathematical logic for drawing architectural drawings.
- It made the work for architectural engineers in the drawing part fast and block detection and identification fully automated.

SCHOLASTIC ACHIEVEMENTS

Secured Second Position in the Web Design Competition Organized by College ICT Center

- Used HTML, CSS, JavaScript, Bootstrap to make basic, multiple screen compatible, animated and robust design.
- Implemented **neumorphism** for creating an embedded GUI effect.re
- Implemented **glass morphism** to create frosted glass effect.
- Used **php-ml** to implement supervised classification using KNN.
- Used JavaScript to trigger and create animations.

ACADEMIC PROJECTS

HR Work Automator and Event Assistor Website

- Used PHP and MySql in order to maintain and update attendance databases in the portal.
- Used HTML, CSS, javascript, bootstrap in order to build animated, robust, interactive and user friendly interface.
- Used PHP to make multiple access levels and add mailing features to send emails regarding each event.
- Used **ajax** to make changes without loading the page and FPDF to generate certificates.
- It has made event organisation easier than ever and the first ever opportunity for the institution to have a fund raiser's database.
- Project link: <https://www.hopeeverywhere.live/>

Python Command Line Application for Finding Open Slots in Vaccination Drive

- Used python to fetch raw data of vaccination centers from *setu api*, later to be converted to json with the *.json()* method.
- Traversed data to find if there is an available slot for minimum age limit 18.
- The logic is applied in a while loop every 5 seconds and beep is emitted (by winsound) for 3 seconds if required criteria are met.
- Made slot booking easier as multiple times manual checking is rendered completely redundant with this application.
- Git link: [vaccine 18plus slot detector](#)

Web Application to Resolve Premises Given in CNF

- Made a web application with php and ajax to find a resolved solution of premises given in CNF.
- Worked with ajax to give on-page resolved premises without changing the page.
- Used php based logic to recursively derive the complete solution.
- Made finding resolution of big CNF expression easy and completely automatic
- Project link: [resolution engine](#)

Positions of Responsibility

- H.O.P.E: Hope of People Everywhere (NGO): As a **lead** of the Fundraising vertical in HOPE, worked in collecting funds from the people visiting the nearby shopping malls for the underprivileged children.
- Worked as Fundraiser in the NGO in order to raise funds for the underprivileged children around jaipur.