

# MANAS SINHA

## SOFTWARE ENGINEERING INTERN

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### PROJECTS

#### GESTURE CONTROLLED MOUSE POINTER

**Tech stack** — OpenCV, Python, Landmark Detection

- This program tracks the hand using landmark detection and estimation algorithm in real-time using google's **mediapipe** library and uses the data to reposition the mouse pointer automatically.
- Pyautogui was used to control the mouse pointer.

#### HANDWRITING RECOGNITION

**Tech stack** — CNN, Flask, Tensorflow, HTML, CSS

- A CNN-based classifier trained over the MNIST dataset, able to recognize hand-written digits.
- The project was deployed on a flask web server.

#### MAZE SOLVER BOT

**Tech stack** — Arduino, Line Following

- Arduino Based Line Follower bot that finds the path in a maze using the left-hand rule.
- The bot was made for the techfest IIT BHU 2019 (TECHNEX)

#### PORTFOLIO WEBSITE

**Tech stack** — HTML, CSS, SCSS, GIT

- A front-end heavy personal website for displaying my projects with an aesthetically pleasing UI.
- The website is hosted live on Github pages.
- <https://ghostlypresence.github.io/manassinha-portfolio/>

### EDUCATION

#### BIRLA INSTITUTE OF TECHNOLOGY, MESRA

— B.TECH. IN ELECTRONICS AND COMMUNICATION ENGINEERING

AUGUST 2018- MAY 2022  
[EXPECTED]

GPA: 8.2/10

#### PARK MOUNT PUBLIC SCHOOL, PATNA — XIIth

APRIL 2016 - MARCH 2018

PERCENTAGE: 88%

### WORK EXPERIENCE

#### PHYTOON.COM —

*Freelance Tech Content Writer*

March 2021 - PRESENT

Weekly articles on various topics.

### SKILLS

#### COMPETITIVE

PROGRAMMING,

C++, PYTHON, HTML, CSS, OPENCV FLASK, ARDUINO, LINUX

### TRAINING AND CERTIFICATION

Computer Vision AtoZ - Udemy

## ABILITY

AI, COMPUTER VISION, IoT, AUGMENTED REALITY, IMAGE  
PROCESSING