

SHUBHAM TIWARI



EDUCATION

Thapar Institute of Engineering and Technology, Patiala
Bachelor of Engineering in Computer Science Engineering, GPA: 7.84/10
Shaheed K P S Inter College, Devaria Churamani, Gonda
Intermediate, Percentage: 87.2%

India
July 2019- July 2023
India
July 2016 – July 2018

WORK EXPERIENCE

Restaurant food ordering System



HTML, CSS, PHP

June 2022 – July 2022

- Created a platform which **provides food ordering facility for Hotel Sunshine Lodge**, Chandigarh.
- Performed all the editing, updating, managing order details, food items, and restaurants are from the admin section while customer can only go through site and give orders if want, they can also edit the order.
- Designed a cross functional project and **secured from SQL injection**.

PROJECT EXPERIENCE / OPEN SOURCE

DURI – Digital Universal Remote Interface Research Paper + PATENT



Python, Computer vision, Nvidia Jetson Nano kit, MediaPipe, PyQt5, Autopy

March 2022 – July 2022

- Innovated an AI based software for public computers using that people can interact with computer by their fingers before the camera with the **accuracy of 98%**.
- Objective is to prevent from spreading **COVID-19 like diseases** by avoiding touching the same **public computer (i.e. ATMs)** by people.
- Proposed interface for controlling robots and **Reduces 90% manufacturing cost of mouse and keyboard**.

Lekhan Mitra: Book to eBook



Python, OpenCV, Tesseract OCR, PyQt5,

Nov. 2021 – Jan. 2022

- Created a solution for people **to make eBooks from the hard copy of books** of any language e.g., Tamil, Telugu, Urdu, Sanskrit, etc.
- Scan the book it will convert into an eBook for people. **Save 90% time in typing** Only need is formatting.
- Monitored **more than 100 languages** are supported to preserve book's literary value.

Object tracking



Python, OpenCV, TensorFlow, Keras, vgg16 model

March 2022 – April 2021

(Dataset of 90K Images)

- Evaluated various labels are there in the datasets like circle, heptagon, hexagon, nonagon, pentagon, square, star, triangle and cube.
- Tracked the different object with the **accuracy of 79.39% and 48% loss** on test data using ADAM'S as optimizer and categorical cross-entropy as loss function respectively.
- Utilizing unsupervised machine learning and deep learning concepts as CNN, Transfer Learning.

TECHNICAL SKILL

Programming Languages:

C, C++, Python, PHP *Familiar with* R(Basic), Dart, JavaScript, C#

Databases:

MySQL, SQLite3 *Familiar with* PL/SQL (Procedural Language)

Libraries/Framework:

Pandas, NumPy, Seaborn, Matplotlib, MediaPipe, OpenCV, Scikit-Learn, TensorFlow, Flask

Frontend

HTML, CSS, Bootstrap

Backend

Flask, Django, PHP

Data Structures and Algorithm

Solved 150+ questions on Leetcode and 100+ questions on Geeksforgeeks.

Competitive Programming/Problem Solving

5* on *HackerRank* and 3* on *Codechef*

Basic familiarity of tools

GIT, Gerrit, Azure, AWS, Linux, Maya2020, Docker,

POSITION OF RESPONSIBILITIES/EXTRA CURRICULAR ACTIVITIES

- Rotaract Club of TIET | Marketing head** (2020-2022).
- Mathematics Teacher** of class 9th-12th @ Unique Academy 1.5+ years' experience (March 2020 – Sept. 2021).
- Voluntarily organized art & singing competitions** in the rural area and **motivated students** toward science and education.
- Part-time video content creators to help the people. More than 300K views.

HONOR & AWARDS

- Ranked 242** among 25000+ coders **globally** in Codechef august long challenge 2021.
- 1st Marketing head** of Rotaract Club of TIET.
- Got **1st position in District** in class 12th- **Awarded by District Magistrate**.
- Led most college projects and managed up to **7 member teams**

CERTIFICATIONS

Getting started with AI on jetson nano	Nvidia	link
Fundamental of Accelerated Computing with Cuda Python	Nvidia	link
Fundamental of Deep Learning	Nvidia	link
Problem Solving (Intermediate)	HackerRank	link
Python	HackerRank	link
Learn Ethical Hacking from Scratch by Zaid Sabih	Udemy	link