Nishita Kadian

nishita.kadian at gmail.com | +91-81460-03983

EDUCATION

TIET | THAPAR UNIVERSITY
CGPA: 9.22
BTech in Electronics Instrumentation and Control
July 2023 | Patiala, India

SKILLS

LANGUAGES
C • C++ • Python • SQL

SOFTWARE
Git • MATLAB • Autodesk Tinkercad • Autodesk Autocad

FAMILIAR
Data Structures • Algorithms
Database Systems • Operating System
Low Level Design • Computer Networks

LINKS

Website: **nishita-kadian.github.io**
Github: **nishita-kadian**
LinkedIn: **nishita-kadian-9542b7202**
Hackerrank: **nkadian_be19**
LeetCode: **NK04**

ACHIEVEMENTS

- Earned maximum star gold badges in **Problem Solving**, **C++** and **SQL** on **Hackerrank**.
- **350+ problems solved** on **LeetCode** with solutions hosted on **Github**.
- Awarded **TIET Merit Scholarship** Year 2021-22 for outstanding performance in academic year 2021-22 with **CGPA of 9.39**
- **Tata Imagination Challenge 2021**, Organized by Tata Sons, certificate of participation
- **Uber HackTag 2.0**, Organized by Uber, cleared 3 rounds, certificate of participation
- **Innovaccer's HackerCamp 22 powered by Microsoft**, Organized by Innovaccer, certificate of participation
- **Jumpstart powered by Publicis Sapient**, Organized by Publicis Sapient, certificate of participation
- **House of Code powered by Lowe's Companies Inc.**, Organized by Lowe's Companies Inc., certificate of participation
- Received **Gold medal** twice in **Taekwondo, Chandigarh State Open**.
- **Gold and Bronze medal** in Taekwondo, State Schools Tournament by Education Department, Chandigarh Administration

PROJECTS

- Movie Explorer (Github repo)
  (Exploratory Project) *(2022)*
  Movies data taken from **Grouplens dataset**. Cleaned and processed to push it in SQLite database. **Backend**: Complete backend using **RESTful APIs** written in **Flask (Python)** tested using **Postman**, with **SQLite** for Database. Supports user login to mark watched movies. **Frontend**: Written with **HTML/CSS/JS** as Flask templates.
- Deep Learning based High Resolution FPM (Report)
  (Capstone Project, Dr. Vishal Shrivastava) *(2021)*
  Fourier Ptychographic Microscopy (FPM) offers a way to recombine multiple images to achieve the end goal of a high resolution image with a wider view. Constructed a **UNET** Architecture based deep learning network and planning to use it get high resolution samples of Malaria samples. Implementation was done in **MATLAB**.
- Micro-controller based LPG Detection System (Report)
  (UTA014-Engineering Design-2, Dr. Harpreet Vohra) *(2020)*
  Programmed **Arduino Uno** with **MQ-6 Gas detection** sensor along other electronic parts to detect gas concentrations from **200 to 10000ppm**. Reduced tentative cost to the minimum possible by trying all possible gas sensors, piezo buzzers and LCD displays.
- Ultrasonic blind walking stick (Report)
  (UTA014: Engineering Design-2, Dr. Sanjeev Rao) *(2020)*
  Programmed **Arduino Uno** with Ultrasonic Distance Sensor **(HC-SR04)** and Piezo buzzer to detect obstructing objects between **2cm to 80cm** and a 15° V-shaped angle centered around y-axis. Experimented and tested the model using Autodesk Tinkercad. **[DEMO]**
- Irrigation system
  (UTA025: Innovation and Entrepreneurship, Dr. MD Singh) *(2020)*
  Proposed an irrigation system powered by solar energy using solar panels. Moisture Sensor to detect when to start and stop watering the fields using an automatic irrigation module [yet to be designed]. pH Sensor for detecting when the soil needs fertilizers.