Arpon Kapuria

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EDUCATION

B.Tech in Computer Science and Engineering   Tamil Nadu, IN | December 2020 - Present
NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI
Expected Graduation Date: July 2024

EXPERIENCE

MIR ZAHID ART SCHOOL | ART INSTRUCTOR   Kushtia, BD | June 2018 – November 2018

- Taught pre-teen students on weekend art classes. Helped around 50 students in developing pastel drawing skill.

PROJECTS

SMART HOME MANAGEMENT SUITE   SEPTEMBER 2022 - PRESENT

- Developed a flutter app to manage smart home automation across 4 clusters, each having 15 homes in Assam, India.
- Created both admin portal and user apps for controlling electronic devices such as lights, fans, etc.
- Used the MQTT server for IoT communication and integrated flutter frontend with API developed in Django by another teammate.
- Parsed energy metre data to generate bills and made summary reports in the admin dashboard.

MALICIOUS WEBSITE DETECTION USING MACHINE LEARNING   OCTOBER 2022 - NOVEMBER 2022

- Implemented a machine-learning model with MLP algorithm to detect malicious websites using tensorflow.
- Built a chrome extension to extract the features from the webpage to test the website against the trained model to classify if it is malicious or not.
- Added a feature in the extension to get user feedback, in case the classification is wrong and used a continual learning approach to store the data and retrain the model daily to improve the model's performance.

FRUIT NINJA CLONE   OCTOBER 2022

- Developed this 2D game with Unity and C. It is a clone of the famous mobile game Fruit Ninja developed by Halfbrick Studios.
- In Fruit Ninja, the player slices fruits with a blade controlled via the touch screen. In my clone version, Instead of touching, one can use a mouse to move the blade to slice the fruits. We can see the points on the screen after every slicing.

SKILLS

Languages: C, C++, Python, Dart
Web Development: JavaScript, HTML, CSS
Database: MySQL
Framework: Flutter, Tailwind CSS, TensorFlow
Game Development: Unity, C#
Others: Git, Docker, MS Office, LaTeX

ACHIEVEMENTS

- **2020** Indian Council for Cultural Relationship (ICCR) scholarship awardee – selected as one of the 200 students receiving this scholarship from Bangladesh by the Govt. of India.
- **2017** Merit Order Scholarship from the Chamber of Commerce, Kushtia, Bangladesh because of the excellent performance in 10th board exam.
- **2015** Received General Grade Scholarship from the Govt. of Bangladesh in the 8th board exam.
- Won multiple prizes in art competitions organized by: **Bangladesh Udichi Shilpigoshthi**, **Zilla Shilpokola Academy, Kushtia**, **Bangladesh Shishu Academy** and **Inter-School** cultural fests in Bangladesh.