ADITYA PRAKASH GUPTA

ACADEMIC PROFILE

Degree/Certificate	Institution	Percentage/CGPA	Year
B-Tech	Electronic Engineering IIT (BHU), Varanasi	9.25	2022
ISC (XII)	Dr. Virendra Swarup Education Centre, Kidwai Nagar	97.00	2018
ICSE (X)	Dr. Virendra Swarup Education Centre, Kidwai Nagar	97.40	2016

SKILLS

Programming: C++, C, Python, Java.

Frameworks and Utilities: OpenCV, Keras, HTML/CSS, Git, AWS EC2 Ubuntu Instance, Arduino.

Areas of Interest: Data Structures and Algorithms, Object-Oriented Programming, Image Processing, Deep and Convolutional Neural Networks, Web Development.

PROJECTS

Movie/TV Shows Search Website
June 2020 - July 2020

Personal Project

- Site Link: blockbusterlive.digital
- Used the **OMDB API** and linked it to the back-end **(ExpressJS)** to obtain data whenever a query is passed by the user. The data is further displayed in the front-end app **(Angular 9)**.
- Successfully hosted the website using **AWS EC2 Instances**.
  Exposure: Angular 9, ExpressJS, AWS EC2 instances, Git.

Udacity Self Driving Car Simulation
March 2020 - April 2020

Mosaic, Udyam'20

- Trained a **CNN model** by creating a dataset from **Udacity Self Driving Car Simulator**.
- Successfully ran the model over an unseen track with ~98% accuracy in centre alignment and maintained constant speed using **PID Mechanism**.
  Exposure: Python, OpenCV, CNN, Keras, Image Processing

Handwritten Captcha Solver
March 2020 - April 2020

Mosaic, Udyam'20

- Successfully implemented Real-Time Handwritten Captch Solver model with ~92% accuracy.
- Trained a **CNN Model** on **EMNIST byMerge** dataset.
  Exposure: OpenCV, Keras, Deep and Convolutional Neural Networks, Image Processing, Google Colab

Autonomous Path Mapping Robot
March 2019

Pixelate, Technex'19

- Designed an Autonomous Robot that used the overhead camera feed and applied **Image Processing** Techniques to identify its position and the maze.
- Implemented **BFS algorithm** on that maze to find the shortest path to reach the required position according to the given set of rules and its present conditions.
  Exposure: Python, OpenCV, Arduino, Path Planning

POSITION OF RESPONSIBILITY

- **Executive, Events Team(D'aero Glisseur)**: Successfully organized and mentored D'aero Glisseur event (Hovercraft Competition) in **Technex'20**, the Techno-Management Fest of IIT(BHU), Varanasi.
- **Co-coordinator** of **Prof. Veer Bhadra Mishra Memorial Airshow**, Technex'19, IIT(BHU).

HONOURS AND ACHIEVEMENTS

- Secured **2nd** position in **Pixelate**, an Image Processing event at Technex'19.
- Secured **3rd** position in **Digisim (UDYAM'20)**, a Digital Electronics Based Event organized by Electronics Engineering Society, IIT(BHU).
- Secured **3rd** position in **Funckit (UDYAM'19)**, a Digital Electronics Based Event organized by Electronics Engineering Society, IIT(BHU).
- Qualified for Round 2 in RC Plane Event by **Boeing** - IIT National Aeromodelling Competition 2019-20 at **IIT Kharagpur**.
- Eligible for **INSPIRE Scholarship**: for being among **top 1 percentile** students in **class XII Board Examinations**.
- **Purple (4-star coder)** on Codechef (highest rating **1944**), **Cyan(Specialist)** on Codeforces (highest rating **1506**) and highest rating **1559** on HackerEarth. Handle: **adipro1167** (Codeforces, Codechef, HackerEarth).
- Changed **department** after the **first semester** on the basis of **merit**.

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