

Dhruv Tyagi

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Education

Harcourt Butler Technical University (HBTU), Kanpur

Bachelor of Technology in Electrical Engineering

2020 – 2024

CGPA: **7.20**

Rainbow Public School, Saharanpur

Senior Secondary (Class XII)

2017 – 2019

Percentage: **94.6**

- Ranked 1 in **NAO** (National Astronomy Olympiad) and qualified for the visit to NASA.

Experience

Research & Development Intern

June 2022 – August 2022

- **Siemens Ltd.**

Mumbai

- Researched and created the work plan for the **Automation** of Lab work at the R&D department.
- Created **API** of labs using the **Mind Connect IOT 2040** module for controlling the labs remotely.
- Prototyped an application on **Mindsphere cloud** using Mendix and designed **PLC programs** of **10+** labs on **LOGO** and **TIA software**.
- Project and Research work - [GitHub](#) | [Video1](#) | [Video2](#) | [Work Plan](#)

Open-Source Maintainer

[GitHub](#) | [Link](#)

- **Hacktoberfest**

- Maintained and developed the **Tech Talk** (An **Open-Source** Tech Topics Learning Website) at Hacktoberfest 2022.

Projects

Shoe Hype

[GitHub](#) | [Deployed](#) | [Video](#)

- Developed a **CNN Based Recommender System** where users can Upload shoe images to get similar **recommendations**.
- Provides buying options to the user by demonstrating the **Reverse Imaging** using **scikit learn** and **RESNET 50**.
- **Cleaned** and **analyzed** the raw dataset having more than **20k+** rows and used **ImageNet** model for the feature extraction.

Snap Shot

[GitHub](#) | [Deployed](#) | [Video](#)

- Real time engine that provides a summary of updates on trending, favourite or any **searched** topic.
- Used Google News RSS **API** for scraping the news and Newspaper3k for summarizing the news.

Pose Detector

[GitHub](#) | [Video](#)

- **Computer Vision** based project that detects and analyses **400+** landmarks and poses of the user using **OpenCV** and **Mediapipe**.
- Predicts the defined poses with probability scores using **Scikit Learn pipelines** and **Random Forest** machine learning algorithm.

Achievements

- Secured **Global Rank 1334** out of **21,234** in LeetCode Weekly Contest 330 under handle [Dhruv-Tyagi](#).
- Cleared the **Python** Programming, **Problem Solving** and **SQL** (Intermediate) [HackerRank](#) Certification Test.
- Selected as a **Siemens Scholar** among the **top 200** candidates from India for the **German dual** based Scholarship program.
- Selected as the recipient of **Bertelsmann Scholarship for Data Science** with Python Nano degree program via Udacity.
- Cleared **Mechatronics Level 1 & 2** Program and **soft skills** Training by Siemens Growth Center.

Skills

Languages & Libraries:

Python, HTML/CSS, SQL, OpenCV, Scikit-learn, Mediapipe

Data & Frameworks:

Data pipeline (Analysis, Modeling, Deployment), Django, REST API, Streamlit

Relevant Coursework:

Data Structures, Algorithms, Object Oriented Programming, DBMS

Platforms:

Git, GitHub, Jupyter, VS Code, Excel, Linux (Ubuntu)

Responsibilities

Co-Secretary | *Alumni Association*

- Organized the 18th and 17th International Alumni Meet with **2500+** alumni and **Mr. President** as the chief guest.

Co-Founder | *Job Portal*

- Developing the **Job Portal** with **300+** alumni base to provide placement and internship opportunities to the students.

Social Media & Events Head | *Unstop, Octave, ASCPC*

- Prepared and executed various strategies to increase audience reach by **90%** on LinkedIn and Instagram.
- Managed and Organized **E-Sports, Cultural Fest 2020**, Seminars, musical performances and various other events nationwide.