Dhruv Tyagi

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Education

Harcourt Butler Technical University (HBTU), Kanpur *2020 – 2024*
- Bachelor of Technology in Electrical Engineering *CGPA:* **7.60**

Rainbow Public School, Saharanpur *2017 – 2019*
- Senior Secondary (Class XII) *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.
- 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.
- Cleared the Python HackerRank and **SQL** (Intermediate) HackerRank Certification Test.

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.

Lead Igniter | *Unstop*
- Managed and Organized various Inter college events with participants from all over the nation.