

Dhruv Tyagi

Portfolio | GitHub | LinkedIn

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EDUCATION

- **Harcourt Butler technical University** Kanpur, Uttar Pradesh
Bachelor of Technology in Electrical Engineering; CGPA: 7.6
Dec 2022 – April 2024
- **Rainbow Public School** Saharanpur, Uttar Pradesh
Intermediate; Percentage: **94.6%**
July 2018 – May 2019

EXPERIENCE

- **Invariance Automation** Oct 2022 – Dec 2022
Software Development Intern IIT KANPUR
 - Working on the Development of **OpenCV** and **Python** based **User Interface** with the Team Members.
 - It ensures the proper alignment of various components on **PCB** for **automating** the assembly line.
 - Implementing **machine learning models** for matching the product with the prototype.
- **Siemens** June 2022 – Aug 2022
Research & Development Intern Mumbai
 - Researched and developed a work plan for the **Automation** of the R&D department.
 - Created **API** of labs using the **Mind Connect IOT** module.
 - Prototyped an application on **Mindsphere cloud** using Mendix.
 - Designed **PLC program** of **10+** labs on **LOGO** and **TIA software**.
 - Project Links – [GitHub](#) | [Video1](#) | [Video2](#)

PROJECTS

- **Shoe Hype** GitHub | Deployed | Video
 - It is a **website** that is a **CNN Based Recommender System**.
 - Users can Upload any shoe image to get similar shoe **recommendations**.
 - It also shows buying options to the user and uses **RESNET** for feature extraction.
 - It demonstrates **Reverse Imaging** and uses **scikit learn** to fetch the closest entries from the dataset.
 - **Cleaned and analyzed** the raw Kaggle dataset having more than **20K+** rows.
- **Pose Detection** GitHub | Video
 - This project analyses **33 pose, 468 face and 21 hand landmarks** of the body using **OpenCV** and **Mediapipe**.
 - It **predicts** the poses of the user with probability scores using **Scikit Learn pipelines**.
 - It helped me understand, how to efficiently work with Git branches and **machine learning models**.
- **Stocks Forecaster** GitHub | Deployed | Video
 - It is a Stocks **Prediction** application which is made with **Prophet**.
 - It fetches data from Yahoo finance **API** and graphically shows the result using **Plotly**.
 - Users can select from **3000+** stocks and can get predictions ranging from **1 to 5 years**.

TECHNICAL SKILLS

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|-------------------------------|-----------------------------|--------------------------------------|--------------------------------|
| ● Python | ● TensorFlow | ● Recommendation Engines | ● Machine Learning |
| ● Scikit learn Keras | ● AWS | ● Time series Forecasting | ● Customer Segmentation |
| ● NumPy pandas | ● Matplotlib Excel | ● Natural Language Processing | ● DBMS Power BI |

HONORS & RESPONSIBILITIES

- **Siemens Scholar** Website
 - Got selected as a **Siemens Scholar** among the **top 200** candidates from India for the **German dual** based program.
 - Attended **Mechatronics** (Learnt PLC programming) and **soft skills** Training by Growth Center.
- **Co-Secretary, Alumni Association**
 - Organized **Alumni Meet** with **Mr. President** as chief guest and had **2500+ alumni** at the centennial celebration.
 - Leading the Development of a **Job Portal** that will provide placement and internship opportunities to students.
- **Maintainer At Hacktoberfest** GitHub | Deployed
 - Maintainer of **Tech Talk (Open-Source Tech Topics Learning Website)** at Hacktoberfest 2022.
 - Created an **API** of Tech articles on Metaverse, Augmentation Reality, Virtual reality, Blockchain, etc.
- **Certification Test** Certificate 1 | Certificate 2
 - Passed Python HackerRank and **SQL** (Intermediate) HackerRank Certification Test.