

Dhruv Tyagi

Portfolio | [GitHub](#)
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EDUCATION

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

EXPERIENCE

- **Invariance Automation Pvt Ltd.** Nov 2022 – Dec 2022
*Upcoming **Software** Development Intern* IIT KANPUR
 - To Develop an **OpenCV** and Python based **User Interface** which ensures the proper alignment of various components on PCB.
 - To implement **machine learning models** for matching the product with the prototype for building an **automated** PCB assembly line.
- **Siemens Pvt Ltd.** June 2022 – Aug 2022
Research & Development Intern Kalwa, Mumbai
 - Developed a work plan for the **Automation** of labs. In this, an **API** of labs was created using the **Mind Connect IOT** module.
 - Developed a prototype application on **Mindsphere cloud** using Mendix and made PLC program of labs on LOGO and **TIA portal software**.
 - Project repository : [Reimagined-System](#)

PROJECTS

- **Unicofy | Data Engineering and Analysis, Scikit-Learn, ML models**
 - It is an HBTU **startup** based on the Indian government scheme **ODOP** which aims to increase the selling of Famous Products in Every District.
 - Working on collecting data and building a **product and gift recommendation** system.
- **Shoe Hype | Python, Deep Learning, ResNet, Streamlit**
 - This is a **website** that is a **CNN Based Recommender System** that uses RESNET for feature extraction.
 - It does **Reverse Imaging** and provides recommendations and **buying options** to the user.
 - Website Link : [SHOE-HYPE](#) | GitHub Repository : [Shoe-Hype](#)
- **Pose Detection | Mediapipe, Computer Vision, Scikit Learn, ML**
 - This project detects and analyses the **landmarks** of the body and further **predicts** the trained poses with probability scores.
 - Features of poses are extracted which are stored in a **CVS** file and passed to the machine learning model with the best accuracy.
 - GitHub Repository: [Pose Detection](#)

ADDITIONAL

- **Technical Skills**
 - Python (NumPy, pandas, scikit-learn, Keras, Streamlit, SciPy) • Data Visualization (Matplotlib, Excel) • AWS • Machine Learning • TensorFlow • Recommendation Engines • Time series Forecasting • Customer Segmentation • Natural Language Processing • Statistics • DBMS
- **Training and Certificates**
 - Basic Mechatronics Training | MIT, Aurangabad • Soft Skills Training by Growth Center | Mumbai
 - Python HackerRank_ • SQL(Intermediate) HackerRank_ • Data Science

ACHIEVEMENT & RESPONSIBILITIES

- **Siemens Scholar**
 - I am honored to be selected as a [Siemens Scholar](#). In this, only the top 200 candidates from India are selected for the **German dual** education-based Scholarship program.
- **Co-Secretary, Alumni Association**
 - Organized and Managed **Alumni Meet** with **Mr. President** as our chief guest on the centennial celebration of HBTU.
 - Leading Development of **Job Portal** which will provide placement and internship opportunities to students.