

# UJJWAL TYAGI

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**GitHub** | **Linkedin** | **HackerRank**

## EDUCATION

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**Bharti Vidyapeeth's College of Engineering (affiliated GGSIPU, Delhi)**

New Delhi, India

Electrical and Electronics Engineering B.Tech.

August 2019 - July 2023

CGPA: 9.2

## EXPERIENCE

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**Defence Research and development organization | computer vision project intern** New Delhi | July 2022 - Sep 2022

- Worked on Deep Learning and Computer Vision under Sh. Trilochan Singh Rathore (Scientist - E)
- Developed a project to detect, separate and match an individual from a group photo or live video feed using Face Recognition mechanism

**IRCON INTERNATIONAL LTD. | Electrical Engineering Intern** New Delhi | Aug 2021 - Sep 2021

Assigned to the NCRTC's Regional Rapid Transit System (RRTS) project, stationed at a Receiving Sub-Station (RSS) on the Delhi-Ghaziabad-Meerut corridor. Gained hands-on experience with the operation of Gas Insulated Substations (GIS).

## SKILLS

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Programming Languages: Python, Javascript, C++

Libraries/Frameworks: NumPy, Pandas, OpenCV, Tensorflow, Scikit-Learn, Matplotlib, Plotly-Dash, Streamlit, Selenium

Tools / Platforms: Git, VSCode, Power BI, Tableau

Databases: SQL, MongoDB

## PROJECTS / OPEN-SOURCE

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**Manthan | Link**

*Python, Pandas, Matplotlib, Selenium, Streamlit*

Analyzed 2019 and 2024 Indian election data to uncover socio-economic and voter behavior trends. Built a data pipeline with Selenium, Pandas, and NumPy, and developed a Streamlit dashboard for interactive insights.

**Vridhhi | Link**

*Python, PyQt, Pytorch, OpenCV*

Aimed to improve low-quality video streaming in remote areas with low bandwidth. Developed 'Vridhhi,' a desktop app that enhances image/video resolution up to 4x using ESRGAN.

**Patent for an Auto Fire Extinguishing Suit | Link**

Published patent for a fire protection suit integrating an automatic fire extinguisher with a Nomex jacket.

## CERTIFICATIONS

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- Machine Learning Specialization - **Stanford University, deeplearning.AI**
- Data Science Specialization - **IBM**

## HONORS & AWARDS

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- Runner up at TechUdyam symposium 2023
- Samadhan 2022 by Hindalco and IMI Delhi - One of the top 8 teams
- Anveshana 2021 - One of the top 10 teams