UJJWAL TYAGI

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Portfolio | GitHub | LinkedIn | HackerRank

EDUCATION

Bharti Vidyapeeth's College of Engineering (GGSIPU)   New Delhi, India
B.Tech. in Electrical and Electronics Engineering   Aug 2019 – Jul 2023
CGPA: **9.2/10**

EXPERIENCE

Defence Research and Development Organisation (DRDO)   New Delhi
Computer Vision Intern   Jul 2022 – Sep 2022

- Developed a face recognition system for group photos/live video using OpenCV and Python.
- Worked under Scientist-E, gaining practical experience in deep learning and computer vision.

IRCON International Ltd.   New Delhi
Electrical Intern   Aug 2021 – Sep 2021

- Contributed to NCRTC's RRTS project; explored GIS substations and grid infrastructure.

PROJECTS

Samarth.AI – Resume Matcher   Live | Code
Python, BERT, Gemini API, Streamlit, Selenium, NLP, LLMs

- Built a Gen AI app to assess resume–JD fit using BERT embeddings and Gemini feedback.
- Scraped JDs via Selenium; parsed PDFs and deployed with Streamlit.

Manthan – Indian Election Data Analysis   Code
Python, Pandas, Matplotlib, Supabase, Selenium

- Analyzed over 15,000 candidates across 2019 and 2024 elections for trends in age, education, assets, etc.
- Scraped, processed, and stored data using Selenium, Pandas and Supabase; visualized with Matplotlib and Plotly Express.

Vriddhi – Video Enhancer for Low Bandwidth   Code
Python, PyQt, Pytorch, OpenCV

- Built a desktop app to upscale videos/images (up to 4x) using ESRGAN.

Patent: Auto Fire Extinguishing Suit   *202211014016 | IPASS*

- Published a patent for a Nomex-based jacket integrated with fire suppression systems.

SKILLS

Languages	Python, JavaScript, C++
Data Analysis	Pandas, NumPy, SQL, Power BI, Tableau
ML & CV	Scikit-learn, TensorFlow, OpenCV, NLTK
Tools/Frameworks	Streamlit, Selenium, Git, VSCode, Supabase

CERTIFICATIONS

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

HONORS & AWARDS

- Runner-up, TechUdyam Symposium 2023
- Finalist, Samadhan 2022 by Hindalco & IMI Delhi
- Top 10 Finalist, Anveshana 2021