

UJJWAL TYAGI

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Portfolio | GitHub | LinkedIn

EXPERIENCE

Mployee.me ↗

Software Development Engineer

Noida, Uttar Pradesh

May 2025 – Present

- Rebuilt **Job Match Pro**, cutting processing time from **5 minutes** to **<30 seconds** while increasing match relevance. Engineered a pipeline using **transformer-based similarity models**, fuzzy matching, and keyword extraction; deployed via AWS Lambda for cost-efficient scaling.
- Orchestrated automated **CI/CD pipelines** using **GitHub Actions** and **AWS ECR**, streamlining the transition from local development to **Dockerized** production environments on **AWS EC2**.
- Developed high-concurrency **Playwright** scrapers for LinkedIn, Foundit, Naukri, and Glassdoor to ingest thousands of daily records into MongoDB. Currently scaling architecture with **LangChain** to automate job extraction from **Fortune 500** career portals.
- Leading the development of **ResuScan** (an AI-driven ATS scoring engine) and a **Custom Cover Letter Generator** utilizing LLMs to dynamically map candidate experience to specific job descriptions.
- Designed a scalable job-expiry detection system, **reducing validation from hours to minutes**; implemented multi-dimensional job availability analytics by profile, location, and experience level on **EC2**.

PROJECTS

Samarth.AI – Resume Matcher Live | Code

Python, BERT, Gemini API, Streamlit, Selenium

- Built a **GenAI-powered** resume-JD matching tool with **85% match accuracy**, used by **50+ users**.
- Combined traditional **NLP with LLM feedback** to parse and match resumes and job descriptions.
- Released as a Streamlit web app, enabling users to discover high-precision job matches.

Manthan – Indian Election Data Analysis Live | Code

Python, Pandas, SQL, Supabase, Selenium

- Constructed a custom **ETL pipeline** for processing data on **15,000+ candidates**, applying **SQL** and **Pandas** for data manipulation.
- **Automated** data extraction, cleaning, and loading into **Supabase**, optimizing data integration workflows.

EDUCATION

Bharti Vidyapeeth's College of Engineering (GGSIPU)

B.Tech. in Electrical and Electronics Engineering

CGPA: **9.2/10**

New Delhi, India

Aug 2019 – Jul 2023

SKILLS

Languages

Cloud & DevOps

Data Engineering

ML & NLP

Tools & Frameworks

Python, SQL, C++

AWS (Lambda, EC2, ECR, S3, EventBridge), Linux, Docker, GitHub Actions, CI/CD Pipelines, Git

ETL Pipelines, MongoDB, SQL Server, Supabase, Hadoop, PySpark

Transformers, NLTK, LangChain, LLMs, Scikit-learn, PyTorch, OpenCV

Playwright, Streamlit, Selenium, Pandas, Power BI, Tableau

CERTIFICATIONS

- Machine Learning Specialization — **Stanford University, deeplearning.AI**
- Data Science Specialization — **IBM** (Completed with **98% average score**)

HONORS & AWARDS

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