Sarvagya Rastogi

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SUMMARY

Currently pursuing an MSc in Artificial Intelligence at Queen Mary University of London specialising in Machine Learning and Deep Learning. Actively seeking roles as an AI Engineer or related positions. **I have the right to work in the UK.**

EDUCATION

MSc in Artificial Intelligence | Queen Mary, University of London | UK | September 2024 - September 2025
- Relevant Modules: Natural Language Processing, Machine Learning, Deep Learning, Neural Networks
- Final Project: Multimodal Emotion Recognition from video, audio and text inputs.

BSc in Computer Science (Honours), 1st | University of Delhi | India | August 2021 - June 2024
- CGPA: 8.595
- Modules: Data Science, Data Structures, Design and Analysis of Algorithms, Software Engineering, Database Management Systems

WORK EXPERIENCE

Data Science Intern (Remote) | Omdena - Berlin Chapter | June 2023 - August 2023 | India
- Preprocessed over 100,000 waste management records from 10+ datasets using Pandas, NumPy, and OpenRefine, enhancing data quality by 95%.
- Conducted Geospatial analysis on 50+ waste sites via GeoPandas, QGIS, and Folium, identifying 15 key zones for facility optimisation.
- Applied K-Means clustering to segment 250+ regions by waste volume, projecting a 20–25% cost reduction in collection routes.
- Collaborated with 30+ AI experts using GitHub, Colab, and Slack, contributing to interactive dashboards and geospatial visualisations.

Java and Python Intern | Coding Saathi | September 2022 - November 2022 | Delhi, India
- Designed a Java-based ATM interface with support for 5+ core banking functions including balance check, deposit, and withdrawal.
- Engineered a Text-to-Speech converter using Python and Google APIs, processing 650+ text samples with **~97%**+ accuracy in pronunciation.
- Developed a custom web crawler (Google clone) that scraped 500+ URLs for real-time data extraction and indexing.

PROJECTS (Github)

AI -Based Face Recognition Attendance System: (Link)
- Built an AI-based face recognition attendance system using Python, OpenCV, and Flask, achieving 98.6% recognition accuracy and reducing manual attendance tracking time by over 90%, enhancing operational efficiency and automating real-time student verification

GenAI Powered Learning Platform: (Link)
- Created a GenAI-powered learning platform using Flask, Vue.js, and OpenAI APIs, deploying 30+ REST APIs, automating code debugging, enabling real-time lecture Q&A, course support and reducing learner support response time by 70% for over 100 active users.

Hybrid Legal Search Engine: (Link)
- Developed a hybrid legal search engine utilising Transformers (Hugging Face) and BM25, achieving over 80% top-5 accuracy on 50+ domain-specific queries across five legal datasets by enabling semantic and keyword retrieval.

SKILLS

- **Programming Languages:** Python, Java, C++, JavaScript, R Language
- **AI & Machine Learning:** PyTorch, Matplotlib, Seaborn, TensorFlow, Scikit-learn, Pandas, NumPy, Hugging Face Transformers, OpenCV, NLP, Text Preprocessing, Feature Engineering
- **Web & API Development:** Flask, REST API, Vue.js, SQL
- **Tools & Frameworks:** Git, Google Colab, Streamlit, Gradio

ADDITIONAL INFORMATION

- Certified in Python, C++, Java, Machine Learning and Deep Learning.
- Tech Head, Infinity – The Tech Society & IQAC: Led technical operations and quality initiatives for the annual tech fest and institutional events. Presided as the Co-organiser of TedEx X SGGSCC.
- Volunteered as a Tutor to young children at Sahayog Bharti Education and raised awareness about the responsible use of technology and cybersecurity threats.
- Languages: English (Fluent), Hindi (Fluent)