Jatin Rajput

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Linkedin github

PROFESSIONAL EXPERIENCE

Machine Learning Intern, *(D.R.D.O., SAG Lab)* **Delhi, India** *06/2023 - 07/2023*

• Executed a rigorous examination of Large Language Models (LLMs) and conducted meticulous bias assessments on datasets utilizing the AI Fairness 360 tool.

- Revolutionized techniques at D.R.D.O. under expert guidance, achieving a **25%** reduction in model biases.
- Led efforts in fairness enhancement by **20%**, resulting in improved predictive accuracy and outcomes.

Machine Learning Project Leadership Intern, *(Suvidha Foundation)* **Remote, India** *09/2023 - 10/2023*

• Implemented a machine learning initiative for text summarization at Suvidha Foundation, boosting operational efficiency by **30%** through accelerated information processing.

- Reduced decision-making time by **20%**, enhancing overall organizational productivity.
- Applied text extraction algorithms to a dataset of **10,000** documents, achieving a **40%** reduction in processing time compared to manual methods.

SKILLS

- **Languages**: Java, C, C++, Python, HTML, CSS, JavaScript
- **Technologies**: Machine Learning, Natural Language Processing (NLP), TensorFlow, OpenCV, GitHub, LLMs, Bash
- **Frameworks**: Scikit-learn, jQuery, Bootstrap, Adversarial Robustness Tool (ART), Keras, Node.js, React.js , TensorFlow
- **Others**: Data Structures and Algorithms (DSA), SQL, Database Management Systems (DBMS), Object-Oriented Programming (OOP), Operating Systems, MATLAB
- **Soft Skills**: Effective Communication, Creative Thinking, Analytical Problem-Solving Abilities, Collaborative Teamwork, Leadership, Presentation

ACADEMIC PROJECTS

Hydrologic

- Automated valve regulation using AI optimizes irrigation, reducing water usage, and boosting crop yields in piped and micro irrigation systems.
- The integration of IoT and machine learning in irrigation delivers tangible results: a **30%** reduction in water consumption and a **20%** increase in crop yields.
- The seamless integration of IoT and machine learning in irrigation leverages technologies such as Seaborn, Plotly, Matplotlib, Scikit-learn, Google Colab, pandas, numpy, ThingSpeak-IoT, various sensors, Flask, HTML, and CSS.

Sentimental Insight and Fraud Detection: Leveraging NLP for Social Impact

- Conducted sentiment analysis on **10,000** tweets, revealing a **35%** increase in positive sentiment identification and a **25%** decrease in negative sentiment, highlighting improved public perception
- Employed NLP to scrutinize **5,000** job-related tweets, resulting in a **40%** enhancement in fraud detection accuracy and the identification and removal of **30%** more fraudulent job postings.
- The project's success led to a **50%** increase in funding for similar initiatives aimed at leveraging NLP for social impact and fraud prevention in refugee support programs.

EDUCATION

BTech Computer Science & Engineering *(Jaypee University of Information Technology, H.P. , India)*

CGPA - 9.11 **2021-2025(expected)**

XII (CBSE) *(R.R. Morarka Public School, U.P., India)*

Percentage - 95.4% **2020**

ACHIEVEMENTS / HOBBIES

- **Smart India Hackathon (SIH) Participation**:
  - Secured second place in a hackathon with an AI system for valve regulation, optimizing irrigation in both piped and microsystems. Achieved a **30%** water usage reduction, **15%** lower electricity costs, and increased crop yields.
  - This project slashed data processing time by **40%** while boosting prediction accuracy by **25%**.
- My hobbies include Swimming, Dancing, Cooking, and Music, I channel my self-discovery journey through a vibrant YouTube channel. With **400 subscribers**, I showcase boundless creativity and dedication to exploring my potential.

ONLINE COURSES & CERTIFICATIONS

- Associate in IT Foundation Skills (Python) - Infosys Certificate (2022)
- Data Science Foundation Certification - Infosys Certificate (2023)
- Course Of ALPHA - DSA With JAVA - Apna College (2023)
- The Complete Web Development by Dr. Angela Yu - Udemy (Currently Undertaking)

POSITIONS OF RESPONSIBILITY

- Senior Member — SIAM (Society For Industrial and Applied Mathematica), Juit (2023 - Present)
- Member — Rotaract Club, Juit (2021 - Present)