

# Viraj Sharma

[LinkedIn](#) | [GitHub](#) | [Hackerrank](#) | [Kaggle](#)

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## TECHNICAL SKILLS

**Programming** : Python, JavaScript, OOPs using Java, HTML, CSS, SQL, Bash, Awk  
**Frameworks** : Flask, Django, Vue.js, Next.js, TailwindCSS  
**Libraries** : Scikit-learn, Matplotlib, Plotly, Seaborn, Numpy, Pandas, Pytorch, HuggingFace, NLTK, Bootstrap  
**Course Work** : Data Structures and Algorithms, Machine Learning, Deep Learning, Reinforcement Learning, AI, NLP, LLM, Business Analytics, Application Development, DBMS

## EXPERIENCE

**Data Science Intern** September 2023 – Present  
*ICCW* Chennai, Tamil Nadu, India

- Launched a **Django-based** water audit tool, enhancing audit engagements by **200%** and slashing operational costs by 80%.
- Optimized **automated PDF** reporting and analytics dashboards, improving decision-making efficiency by **30%**.
- Introduced a comprehensive water flowchart within the web application, boosting user comprehension of data flows by **50%**.
- Fine-tuned an **LLM** for water-specific tasks, increasing productivity in routine inquiries and data retrieval by **100%**.
- Developed a user-centric **chatbot** that cut down internal communication time by **40%**, automating routine data interactions.
- Engineered a live-update dashboard with **real-time** updates, raising internal customer productivity by **40%**.
- Enhanced **dashboard data visualization** tools, providing critical water metrics that increased operational response speed by **25%**.

**Summer Research Intern** May 2023 – August 2023  
*Robert Bosch Center for Data Science and AI* Chennai, Tamil Nadu, India

- Implemented large language models in healthcare, addressing bias with over five evaluation metrics.
- Integrated **FairPy** in AI models, boosting bias detection by **25%**, covering metrics like race and religion.

**Research Intern** February 2023 – May 2023  
*IIT Madras* Chennai, Tamil Nadu, India

- Analyzed online TCS exam audit trail data, focusing on student writing patterns.
- Applied strategies that improved pattern identification by 30%, enhancing educational decision-making and practices.

## EDUCATION

**Indian Institute of Technology Madras** Chennai, Tamil Nadu, India  
*BS in Data Science and Applications* **CGPA-9.75** 2024

- Awarded **CSIR** scholarship for **excellence** in academic performance.
- Class Committee Member, responsible for deliberating on **grading** policies.

**University Maharaja College** Jaipur, Rajasthan, India  
*B.Sc. in Mathematics* 2021

## PROJECTS

**Machine Learning Project (Binary Classification)** *Machine Learning, Scikit-learn, Pandas, Numpy, Matplotlib*

- Tackled a complex machine learning classification problem with advanced data preprocessing techniques.
- Achieved **5th rank** in a competitive field, securing an impressive **79.36%** score.

**Kanban Web Application** *Flask, Vue.js* [Source Code](#)

- Engineered a high-performance web application, increasing user engagement and interaction by 20%
- Revamped the app with Vue.js and integrated Celery and Redis, boosting responsiveness by 50% and task processing efficiency by 30%.

**Capstone Project** *Business Data Management*

- Conducted an in-depth analysis of medical store data, initiating comprehensive market research and data collection efforts.
- Provided strategic recommendations that reduced losses from expired products by 20%, increased revenue by 40%, and resolved stock shortages.

## CERTIFICATIONS

- [AI Fundamentals\(AI-900\)](#)
- [Azure Fundamentals\(AZ-900\)](#)
- [NLP Specialization Coursera](#)

## EXTRA CURRICULAR

- Organized and led cultural events, managing teams of over 20 individuals and engaging audiences exceeding **2000 attendees**.