

Utsav Singhal

AI/ML Enthusiast

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Professional Summary

AI/ML specialist with expertise in developing systems using advanced algorithms. Improved model accuracy by 20%, optimized scalability, and delivered solutions with TensorFlow and Keras. Passionate about solving real-world problems with machine learning, deep learning, and artificial intelligence.

Experience

Tech Research Intern / Vice-Caption, To-Let Globe

Jul 2024 - Present

- Developed machine learning models to optimize data processing and handling, leading to a 30% increase in operational efficiency.
- Provided data-driven insights and recommendations that informed key strategic decisions.

Data Science Intern, Data Culture Technologies

June 2024 - Aug 2024

- Streamlined the data processing pipeline, achieving a 40% reduction in processing time and improving overall data workflow efficiency.
- Conducted in-depth data analysis to support business decision-making, resulting in a 10% enhancement in operational performance.

Research Papers

- Exploring Human Brain Activity Classification:** Analysis Using ML and DL Techniques - *ICDAM 2024*
- Unlocking Drug Discovery Potential:** Harnessing BELKA for Predictive Modeling - *IC-AMSI 2024*

Education

Vivekananda Institute of Professional Studies - Technical Campus

2022 - Present

B.Tech. in AI and ML, CGPA: 8.824 — University Rank: 18 — College Rank: 8

Technical Skills

- ✓ **Languages/Frameworks:** Python, C/C++, Java, HTML/CSS/JavaScript, Flask, ReactJS, Django, Spring
- ✓ **ML/DL/DS:** TensorFlow, PyTorch, Scikit-learn, Keras, Pandas, NumPy, Matplotlib, SQL, MongoDB
- ✓ **NLP/CV:** NLTK, SpaCy, OpenCV, BERT, YOLO
- ✓ **Other:** MLflow, Docker, Kubernetes, Git/GitHub, DS & Algorithms, OOP

Projects

GAN Models Jun 2024 - Aug 2024 Developed GAN architectures for medical imaging, enhancing diagnostic accuracy. *GitHub: UTSAVS26/GAN-Models*

E-commerce Image Augmentation Jul 2024 Created a GAN-based tool for improving e-commerce product images. *GitHub: UTSAVS26/E-Commerce-GAN-Augmentation*

Awards & Certifications

- Bronze Medalist - NeurIPS 2024** - Top 6% in small molecule-protein interaction prediction. Jul 2024
- Programming Club, CFI's Summer School** - IIT Madras Aug 2024
- Foundational Generative AI** - iNeuron.ai Aug 2024
- Career Essentials in Generative AI**, Microsoft and LinkedIn Jun 2024
- OpenCV Bootcamp** - OpenCV University Jun 2024

Soft Skills

- Analytical and problem-solving abilities
- Communication and teamwork
- Adaptability and quick learning