Krish Arya

AI/ML Engineer

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EDUCATION

Maharaja Surajmal Institute of Technology   New Delhi, India
B.Tech. Information Technology [8. 658CGPA]   2023 - 2027
Siddhartha Public School, Rohini   New Delhi, India
Senior Secondary School [85%]   2022 – 2023
DAV Public School, Vasant Kunj   New Delhi, India
High School [93%]   2020 - 2021

SKILLS

Machine Learning: Deep Learning, Neural Networks, Decision Trees, Ensemble Methods, Gradient Boosting, Support Vector Machines
Programming & Scripting: Python (Pandas, NumPy, Scikit-learn, TensorFlow, Keras), SQL
Backend and Webdev Technologies: Flask, HTML, CSS, FastAPI

PERSONAL PROJECTS

ZYSK | HTML, CSS, Gemini Playground, Flask   October 2024 – November 2024
- Developed a financial bot for tier 2 & 3 cities, aiming to reduce stock market losses by 30% through financial profiling and optimize investments for 2x returns.

Signal Sync | OpenCV, YoloV8, Python, Librosa
- Built a YOLOv5-based traffic detection system using OpenCV & PyTorch, achieving 95% vehicle detection accuracy and 40% congestion reduction through optimized clustering.
- Secured 3rd place & a ₹10,000 prize at SDI 2025 (Govt. of Delhi) for presenting a solution that reduced traffic wait times by 35% in jam-prone areas.

WORK EXPERIENCE

Lead Researcher & Author | MSIT – Janakpuri, New Delhi   January 2024 – Present
- Developed a mathematical model for polar bear extinction timelines, integrating RL, DL, and ML.
- Presented at NCRTCES 2024, MSIT, winning Best Paper Award.
- Built scalable preprocessing pipelines, experimented with 16+ ML models, and ensembled 2 models, boosting accuracy from 70% to 95+%.

Intern - Credit Risk Model Development | MSIT – Janakpuri, New Delhi   February 2025 – April 2025
- Developed and optimized credit risk models, improving risk assessment accuracy by 30% using ML and statistical techniques.
- Assisted in data preprocessing, feature engineering, and model validation, enhancing processing efficiency by 40% and ensuring compliance with risk evaluation standards.

Lead Researcher & Author | MSIT – Janakpuri, New Delhi   November 2024 – January 2025
- Co-authored *"Is AI Really the Future of the World,"* analyzing AI's societal and ethical challenges; **shortlisted for** Elsevier SSRN and top 25% at ICICC 2025 (SSCBS).
- Synthesized 10+ research papers on AI implications, shaping project direction and informing strategic decisions.

POSITION OF RESPONSIBILITY

Dept. Design Head, MSIT   March 2024 - Present
- Led all design initiatives as the Department Design Head, creating and managing the layout of departmental magazines for the college.

Content Head, Prakriti MSIT   March 2024 - Present
- As Content Head of Prakriti MSIT, the largest society of MSIT, directed content strategy, led a team of writers, and oversaw event writeups, communications, and brand voice across major initiatives.