

Rishabh Indoria

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Summary — Skilled in machine learning, data analysis, and AI development, with hands-on experience in building predictive models, performing data preprocessing, and optimizing algorithms for impactful real-world applications.

Skills

ML/AI PyTorch, Scikit-learn, Tensorboard, imblearn **Data Science** Pandas, NumPy, Matplotlib, Seaborn, SQL

Experience

Samsung Research Institute - Delhi **May 2025 – July 2025**
Research Intern

- Built a PoC distilling a vision encoder from VLM (BLIP) with ResNet-50 for open-vocabulary classification on COCO.
- Designed a custom loss merging Affinity Mimicking Loss and MSE with trainable weights for better embedding alignment.
- Used a two-stage distillation framework—projection alignment then backbone distillation, adapted from an IISc paper.

Indira Gandhi Center of Atomic Research **Jul 2023 – Dec 2024**
Research Intern

- Implemented open-source network analysis tools to enhance the security infrastructure of ICS networks.
- Conducted assessments of ICS network vulnerabilities, leveraging open-source tools to identify potential security risks.
- Conducted analysis of network traffic, utilizing open-source tools for anomaly detection and intrusion detection.

Education

Indian Institute of Science, Bangalore
Masters of Technology in Artificial Intelligence

Birla Institute of Technology and Science, Pilani
Bachelor of Engineering in Electrical and Electronics

Projects

Predicting Hard Drive Failures - Data Analytics **April 2024 – April 2024**

- Developed a predictive model for hard drive failure leveraging ML techniques and SMART attribute data in the Walmart Hackathon, collaborating closely with team members to identify key features and optimize model performance.
- Enhanced model accuracy by engineering features, improving reliability in identifying drive failures.
- Collaborated closely on algorithm selection, presenting project findings and the model at the Walmart Hackathon.

Recipe for Rating - Machine Learning **Jan 2024 – April 2024**

- Developed a predictive pipeline to preprocess numeric, categorical, and text data, achieving a top Kaggle score of 0.78.
- Optimized machine learning models, including Random Forest, MLP, and AdaBoost, securing Rank 118/950.
- Tackled class imbalance using ensemble learning and class weighting to improve model accuracy on biased datasets.

Dietary Recommendations based on Prescriptions - AI in Healthcare **Jan 2024 – May 2024**

- Developed an innovative solution to generate personalized dietary recommendations by extracting and processing text from medical prescriptions using advanced OCR technology, ensuring precise data retrieval for tailored dietary advice.
- Leveraged large language models (LLMs) and prompt engineering to create dietary advice based on medical data.
- Enhanced accuracy of dietary recommendations, demonstrating potential of technologies to improve healthcare.

Workshops

Computer Vision in Supply Chain **Organized by: Walmart GlobalTech — Date: April 2024**

- Explored time series data analysis and forecasting, enabling informed decision-making based on temporal patterns.
- Learned supply chain optimization using simulated annealing to improve efficiency and cut costs.
- Explored transformer use in computer vision, tackling 3D bin packing challenges to enhance image processing.

Certificaties

DeepLearning.AI Tensorflow Developer

Coursera & DeepLearning.AI

Reinforcement Learning

Coursera & University of Alberta