Rohit Yadav

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Education

University of Groningen   *Sep. 2021 - Aug. 2023*
MSc in Computing Science, Intelligent Systems & Visual Computing   *Groningen, NL*
- Thesis: Enhancing Fake Image Recognition using Contrastive Learning

The Northcap University   *Aug. 2014 - May. 2018*
BTech in Computer Science   *Gurguram, IN*

Professional Experience

Slimmer AI   *Jan. 2023 – Aug. 2023*
Machine Learning Intern — Springer Nature Group   *Groningen, NL*
- Designed a novel fake image recognition framework using contrastive learning to detect fake images within research papers, enhancing the integrity of academic publications.
- Deployed production-ready models achieving a 94% accuracy rate in scanning over 500K images annually, supporting research review teams while cutting manual review time of each image by 70%.
- Boosted detection accuracy by 15% by incorporating image captions, excelling at identifying even highly realistic fakes by generative models like DallE.

Tata Steel   *Jul. 2022 – Aug. 2022*
Computer Vision Intern — Dutch Summer of AI   *Ijmuiden, NL*
- Developed self-supervised learning based pipeline in combination with image processing techniques for steel defect classification, creating a PoC for classifying 8 defect types.
- Built model achieves 92% accuracy on classifying defects which can reduce manual inspection time significantly, enabling faster throughput.
- When deployed, this model would save at least €500K annually for Tata Steel. Our team won the award for Solving the Most Valuable Problem.

Orkash Labs   *Sep. 2018 – Jul. 2021*
Software Engineer — Team Lead - Cognitive AI   *Gurugram, IN*
- Oversaw full lifecycle development of computer vision, multi-lingual NLP, and OSINT solutions.
- Worked on a semantic segmentation pipeline using transfer learning to identify boundaries of buildings and streets using satellite images for urban planners and policymakers.
- Designed an algorithm to identify and detect network of insurgents through their social profiles for the Indian Army.
- Conceptualised and developed an OSINT-based, autonomous, multilingual knowledge engine for extracting real-time intelligence from large-scale, raw, unstructured data.
- Accomplished data engineering tasks using NoSql databases like Accumulo and ElasticSearch, creating schemas and services for several projects and ingestion of data from Kafka consumers.

Technical Skills

Programming Languages:	Python (strong), Java, C++, R
Machine learning Framework & Libraries:	PyTorch (strong), TensorFlow, Keras, Scikit-learn, OpenCV
Cloud Infrastructure & Deployment:	AWS, GCP, Docker, Kubernetes
Big Data Management Systems:	MySQL, Hadoop, Elastic Search, Accumulo, Reddis, Kafka
Version Control (CI/CD):	Git, GitHub

Interpersonal Skills & Interests

Soft Skills: Communication, Teamwork, Problem Solving, Leadership, Critical Thinking, Time Management
Interest: Volleyball, Badminton, Astronomy