Abhay Kumar

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LinkedIn Profile | Github Profile

About Me

Experienced Machine Learning Professional with expertise in Computer Vision, NLP, and solving complex problems. Proven leader with a passion for innovation and delivering cutting-edge solutions.

Objective

Seeking roles in Machine Learning to drive innovation, mentor, and contribute to organizational growth.

Professional Experience

Machine Learning Lead - Target Corporation

Feb 2021 – Present

- Developed anomaly detection system, blocking 30% of anomalous images and enhancing downstream algorithms.
- Implemented OCR model fine-tuning for invoice digitization.
- Created real-time safety monitoring system, reducing safety violations by 40%.
- Designed privacy blur feature for video streams, improving security.

Senior Data Scientist - Embibe

May 2019 – Jan 2021

- Automated question tagging and topic extraction.
- Led in-house annotation tool development with active learning capabilities.
- Improved content discoverability with NSFW content classification.

Senior Data Scientist - ClipIndia

Sep 2018 – Apr 2019

- Implemented NSFW video classification, reducing inappropriate content by 28%.
- Designed video asset tagging system, increasing DAU by 3%.

Senior Data Scientist - Cogknit Semantics

Sep 2015 – Sep 2018

- Spearheaded catalogue filtration project, reducing incorrect product placements by 12%.
- Led course recommender system development for L&D platform.

Education

- Bachelor in Computer Science, Visvesvaraya Technological University (VTU), 2013.

Skills

- Computer Vision: Object Detection, Image Classification.
- NLP: Text Classification, Topic Modeling.
- Machine Learning: Deep Learning (PyTorch, TensorFlow), Scikit-learn.
- Data Processing: NumPy, Pandas, Spark, Hadoop.
- Cloud Platforms: AWS, Azure, Google Cloud.
- Software Engineering: Git, Docker, CI/CD.

Publications and Presentations

- Poster presentation on "Domain Adaptation of Image Caption Model for Video Descriptions" at AI & Deep Learning Conference (GTC 2018, NVIDIA).