# Abhay Kumar

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## 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).