

Yash Pal

☎ 8630036135 ✉ yashpal86300@gmail.com in Yash 🌐 Portfolio k Kaggle

PROFILE SUMMARY

- **Software Development Engineer | Machine Learning & Data Science engineer** with 2+ years' experience developing production Machine Learning systems, optimizing data workflows, building scalable APIs, and deploying end-to-end solutions using Python, Django REST Framework, TensorFlow, and Docker.

EXPERIENCE

Software Development Engineer

Onemind Services LLC

Gurgaon, India

Aug 2023 – Nov 2025

- Engineered **machine learning-driven log analytics** using **Elasticsearch**, orchestrating automated anomaly detection and **improving service uptime by 55%** across distributed environments.
- Streamlined **AI-automated workflows** across GitHub Actions and Kubernetes, automating task assignments with **OpenAI**, and **maximizing operational efficiency by 40%** for engineering teams.
- Conceptualized and delivered **Elastic ML-powered analytical dashboards**, enhancing observability and **reducing manual service review time by 75%** for approximately 177+ services.
- Simplified **task creation, tracking, and workflow automation** across 14 cross-functional projects by integrating ML/AI with Jira, **reducing effort and review time by 95%** for development, deployment, and support teams.
- Optimized cross-platform automation by enhancing **DiffSync-based DigitalOcean droplet synchronization**, unifying multiple systems under a single analytical data flow and improving infrastructure consistency.
- Automated enterprise-scale **central device provisioning** using radio caching and batched API workflows, **increasing sync throughput**, eliminating redundant operations, and **reducing provisioning time by 40%**.

SKILLS

Programming: Python, C, C++, SQL, Core Java

Tools & Technologies: TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, NLTK, spaCy, Transformers, Git, Docker, Linux, PostgreSQL, Elasticsearch, GitHub Actions, Azure, DigitalOcean

EDUCATION

Bharat Institute of Technology, Meerut

July 2019 – Aug 2022

Bachelor of Computer Applications | Focus in Computer Science, Applied Statistics

PROJECTS

CNN Model for Gloved/Ungloved Hand Detection

- Developed a **CNN-based image classifier**, achieving **91% accuracy** through extensive data augmentation.
- Optimized the training pipeline using **Batch Normalization**, **Dropout**, and **learning-rate scheduling**, significantly **reducing validation loss** and improving training stability.
- Enhanced model generalization by applying **feature engineering** and analyzing feature maps to **minimize overfitting** across diverse hand-image variations.

Reddit Comment Violation Classifier

- Fine-tuned a **Gemma-3 transformer model** to classify spam, harassment, hate-speech, and abusive comments with **84% accuracy**, significantly improving automated policy-violation detection across large Reddit datasets.
- Built scalable **preprocessing and batched inference pipelines** enabling efficient, high-throughput processing of millions of comments, reducing latency and ensuring consistent performance under heavy production workloads.
- Automated **rule-violation detection workflows**, reducing manual moderator workload by **60%**, increasing review throughput, and enabling faster, more reliable content moderation at scale.

NetBox Open-Source Contributions

- Enhanced **NetBox automation workflows** by improving feature reliability, fixing core issues, and optimizing operational logic, significantly increasing stability and performance across large-scale infrastructure deployments.
- Implemented efficient **inventory synchronization and optimized API PRs**, reducing manual corrections by **75%**, improving update consistency, and strengthening overall system reliability for production environments.

CERTIFICATIONS

- Supervised Machine Learning, Advanced Learning Algorithms — **Stanford University**
- Unsupervised Learning, Recommenders, and Reinforcement Learning — **Stanford University**