

PROFILE

Machine learning engineer with 6+ years building end-to-end ML systems — from deep learning research to production monitoring and MLOps pipelines. Experienced in model explainability, deployment, and drift monitoring at scale. Strong foundations in computer vision, NLP, and quantitative modelling.

EXPERIENCE

- Machine Learning Engineer IIIJan 2024 — Present
Glance · Bengaluru, India
- Led behavioural user profiling (peek-heavy / CTA-heavy segmentation) through iterative analysis across v100 → v210; delivered **30% delta on peek-heavy users** on Samsung.
 - Built and productionised an LGBM recommendation model for Samsung achieving **12% delta**; owned end-to-end deployment including model-config changes.
 - Drove content-level personalisation in collaboration with product on rewards and feature signals.
 - Improved observability: CGen metrics at various cuts, hourly log traces for on-call debugging; managed popularity pipelines and recall optimisation pipeline.
- Machine Learning Engineer IJun 2022 — Dec 2023
Glance · Bengaluru, India
- Built GenAI-based image metadata tagging automation using LLMs; led prompt engineering for category and subcategory classification.
 - Co-built the two-tower recommendation service; main reviewer and co-contributor.
 - Led Pinecone vector DB POC with batch data ingestion and indexing; POC for all annotation workflows; drove annotation cleanup and cost reduction.
- Machine Learning EngineerNov 2020 — Jun 2022
Censius AI · Bangalore, India
- Built deployment, explainability and monitoring modules using SHAP, LIME and Seldon Alibi to explain model predictions; logged and monitored with MLflow, WhyLogs and Grafana.
 - Created drift prediction APIs for continuous monitoring of model performance and production data; containerized and deployed with Docker and GitHub Actions / AWS ECS.
 - Built data quality, concept drift and performance monitors on Prefect / Airflow jobs.
- Software Developer & ML InstructorJul 2018 — Oct 2020
The Valley Bootcamp · Bangalore, Karnataka
- Eye In the Sky:** Real-time CV pipeline (object detection, facial recognition, plate detection) using stacked deep learning models; MTCNN + finetuned PyTorch models; OCR for plates. Tracked experiments with MLflow.
 - Image Search & Clustering:** CNN autoencoder producing feature vectors (loss 0.002496); KNN similarity search + unsupervised clustering.
 - Student progress portal (Flask, MongoDB), GitHub commit-tracking APIs, and instructor to Python / ML / Deep Learning cohorts.

DOMAINS

- Machine LearningDeep Learning
- MLOpsComputer VisionNLP
- Model MonitoringData Science

STACK

- PythonPyTorchTensorFlow
- Scikit-learnPandas · NumPy
- MLflowDockerAirflowPrefect
- GrafanaSHAP / LIMESeldon Alibi
- WhyLogsFlaskGitLab CI/CD

EDUCATION

- Bachelor of Engineering
B M S College of Engineering · Bangalore
2012 — 2016
- CERTIFICATIONS
- Deep Learning Specialization
Andrew Ng · deeplearning.ai
- END2 — Extensive NLP via Deep Models
The School of AI
- ERAv4 — Extensive & Reimagined AI Program
The School of AI

NOTABLE PROJECTS

- ResNet50 on ImageNet-1k from Scratch** ERAv4 · AWS EC2 — No pretrained weights; trained on full ImageNet-1k on EC2; 75%+ top-1 accuracy; ~10,000 people globally. HuggingFace demo.
- YouSum — AI YouTube Summarizer** Chrome Extension — Streaming YouTube summaries via Claude & ChatGPT APIs; 5 detail levels, background generation, persistent storage.
- YOLO Object Detection** Andrew Ng · C4 — Real-time detection for autonomous driving; bounding box prediction, IoU and non-max suppression from scratch.
- Face Recognition with FaceNet** Andrew Ng · C4 — One-shot face verification using the FaceNet architecture and triplet loss.
- Poetry Analysis Studio** Flask · Gemini AI — Poem analysis and generation (Haiku, Sonnet, Limerick, Free Verse) with detailed literary analysis via Google Gemini.
- Neural Machine Translation with Attention** Andrew Ng · C5 — Seq2seq model with an attention mechanism, learning to focus on relevant input positions at each decoding step.
- Rossmann Store Sales Prediction** Kaggle · Top 0.4% — Deep embedding network; 10% RMSPE; 11th out of 3,000+ teams.
- BlueBook for Bulldozers** Kaggle · Top 0.4% — Random Forest Regressor; RMSLE 0.2214; 2nd out of 476 teams.