

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 III Jan 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 II Jun 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 Engineer Nov 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 Instructor Jul 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.

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.
- **Neural Style Transfer** Andrew Ng · C4 — Applied one image's style to another's content using a pretrained VGG network with combined content + style loss.
- **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.

DOMAINS

- Machine Learning
- Deep Learning
- MLOps
- Computer Vision
- NLP
- Model Monitoring
- Data Science

STACK

- Python
- PyTorch
- TensorFlow
- Scikit-learn
- Pandas
- NumPy
- MLflow
- Docker
- Airflow
- Prefect
- Grafana
- SHAP / LIME
- Seldon Alibi
- WhyLogs
- Flask
- GitLab 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