

Vishak Bharadwaj

Machine Learning Engineer III

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Bengaluru, India

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

Census 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.
- 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