

Vishak Bharadwaj

Machine Learning Engineer III · Open to Opportunities

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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

Feb 2021 — Present

Censius.ai · Bangalore, India

- Built deployment, explainability and monitoring modules using SHAP, LIME and Seldon Alibi; logged with MLflow, WhyLogs and Grafana.
- Created drift prediction APIs for continuous monitoring of model performance and production data quality.
- Containerized and deployed services using Docker and GitLab CI/CD pipelines.
- Built data quality, concept drift and performance monitors on Prefect / Airflow jobs.

Jr. Machine Learning Engineer

Nov 2019 — Dec 2020

Omni-Eye / The Valley Edutech · Bangalore

- **Eye In the Sky:** Real-time CV pipeline (object detection, facial recognition, plate detection) using stacked deep learning models.
- MTCNN for facial detection; finetuned PyTorch models for recognition. Tracked all experiments with MLflow.
- **Image Search & Clustering:** CNN autoencoder → feature vectors (loss 0.002496); KNN + unsupervised clustering.

Software Developer & Instructor

Jul 2018 — Oct 2019

The Valley Edutech · Bangalore

- Built a student progress portal (Flask, MongoDB) and GitHub commit-tracking APIs.
- Delivered Python, ML and Deep Learning courses with a code-first, project-driven approach.

NOTABLE PROJECTS

ResNet50 on ImageNet-1k from Scratch

ERAv4 · AWS EC2

Trained ResNet50 without pretrained weights on full ImageNet-1k on AWS EC2 — completed by ~10,000 people globally. Achieved 75%+ top-1 accuracy. Deployed on HuggingFace Spaces.

Rossmann Store Sales Prediction

Kaggle · Top 0.4%

Deep embedding network achieving 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**.

YouSum — AI YouTube Summarizer

Chrome Extension

Chrome extension using Claude & ChatGPT APIs to generate streaming summaries of YouTube videos — 5 detail levels, background generation, and persistent storage.

YOLO Object Detection

Andrew Ng · C4

Implemented YOLO for autonomous driving — bounding box prediction, IoU, non-max suppression from scratch.

Face Recognition with FaceNet

Andrew Ng · C4

One-shot face verification system using FaceNet architecture and triplet loss.

Poetry Analysis Studio

Flask · Gemini AI

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

Flask web app that analyses poems and generates Haiku, Sonnet, Limerick, and Free Verse examples with detailed literary analysis using Google Gemini.

Neural Machine Translation with Attention [Andrew Ng · C5](#)

Seq2seq model with attention mechanism for translation tasks.