

# Vishak Bharadwaj

Machine Learning Engineer III · Open to Opportunities

vishak.svec@gmail.com

+91 948 362 8282

linkedin.com/in/vishakbharadwaj

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

Census.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.