

Aditya Kushal

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EDUCATION

RV University – CGPA: 9.57/10

Bachelor of Technology in Computer Science, Minor in FinTech

Bengaluru, KA

Nov. 2022 – Jun. 2026

EXPERIENCE

Summer Internship

RV University

Jul. 2024 – Sep. 2024

Bengaluru, KA

- Led a team of 3 to design and implement pruning techniques for deep learning models, improving efficiency without significant accuracy loss in Tensorflow.
- Developed a **Cosine Similarity-based filter pruning** approach to identify and remove redundant filters, reducing information loss.
- Achieved a **14.5× reduction in LeNet-5 model size** with only **0.85% accuracy drop**, enabling faster inference and lower memory usage.

Deep Learning Intern

VectraTech Global

Sep. 2023 – May 2025

Bengaluru, KA

- Developed deep learning models for breast cancer detection using annotated mammography datasets.
- Implemented **BIRADS Classification** with VGG16 and **Breast Cancer Object Detection** with YOLOv7.
- Trained **Breast Density Estimation** on VGG16, achieving **99.76% accuracy** on the InBreast dataset.
- Created robust training and testing samples using **Augmentor** for data augmentation.

Artificial Intelligence Intern

Shaale

Aug. 2023 – May 2024

Bengaluru, KA

- Built a **domain-specific chatbot** by integrating the **OpenAI API** with the company's custom knowledge base.
- Enhanced retrieval accuracy by implementing the **Cohere Reranker API**, improving relevance of responses.
- Integrated the **Tavily Web Search API** to provide real-time external information, expanding chatbot capabilities.

PROJECTS

Obstacle Avoidance System for Visually Impaired | *Python, PyTorch, Ultralytics*

Jan. 2024 – May 2024

- Trained a **YOLOv8-nano** object detection model to detect potholes, light poles, vehicles, and roadside stalls.
- Generated **real-time auditory feedback** with object categories and counts to assist visually impaired users.

Travel Recommendation System | *Python, Pandas, Scikit-learn*

Jan. 2024 – Feb. 2024

- Developed a personalized recommender where users swipe to accept or reject categories.
- Recommended the **top 10 cities** by computing similarity scores against a curated dataset.

TECHNICAL SKILLS

Languages: Python, C, SQL

Deep Learning: PyTorch, TensorFlow, YOLOv7/YOLOv8, Model Pruning/Compression, Transfer Learning

Machine Learning: Scikit-learn, Pandas, NumPy

APIs/Tools: OpenAI API, Cohere API, Tavily API, Git, Conda/Pip