

Dhruv Seth

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SUMMARY

Detail-oriented Computer Science Engineering student proficient in Python and AI/ML (with 2 completed projects), coupled with foundational Java skills. Recently launched into 3-D rendering, creating models, environments, and product animations. Seeking freelance opportunities to leverage technical precision, perfectionism, and a strong sense of responsibility in delivering high-quality visual and AI-driven solutions.

TECHNICAL SKILLS

Programming Languages: Python, Java, SQL

Deep Learning Frameworks: TensorFlow, PyTorch

Libraries & Tools: NumPy, Pandas, Scikit-learn, OpenCV

PROJECTS

Indian Sign Language to Speech

July 2024 – September 2024

Deep Learning Project

Python, TensorFlow, OpenCV, Hugging Face

- Designed a real-time system to translate Indian Sign Language into speech using Python, enhancing communication accessibility for the hearing impaired.
- Implemented hand landmark detection with MediaPipe and OpenCV, and trained a RandomForestClassifier to classify signs into complete phrases or sentences.
- Utilized pickle for model storage and integrated text-to-speech output for audio conversion of recognized gestures.

Smart Traffic Light System Using AI

October 2024 – Jan 2025

Narrow AI: Perception and Decision-Making

Python, Flask, OpenCV, TensorFlow

- Developed an AI-powered smart traffic light controller to reduce congestion by dynamically adjusting signal timing based on real-time traffic conditions.
- Used OpenCV for vehicle detection and density estimation from camera feed, and implemented decision logic using Python and basic machine learning techniques.
- Simulated the hardware interaction by creating an environment on python and running random simulation of traffic.

EXPERIENCE

AI Research Intern

June 2022 – Aug 2022

DeepMind

London, UK

- Conducted research on reinforcement learning algorithms for robotics
- Implemented and evaluated deep RL models using PyTorch and RLlib
- Presented findings at weekly research meetings

Machine Learning Engineer

Jan 2021 – May 2022

Acme AI Solutions

San Francisco, CA

- Developed and deployed machine learning models for various industries
- Optimized model performance and ensured data quality
- Collaborated with cross-functional teams to deliver AI solutions

EDUCATION

St Joseph's Co-Ed School

Bhopal, MP

Schooling pre-nursery to 12th standard

May 2023

VIT Bhopal University

Sehore, MP

B.Tech. in Computer Science and Engineering

Sept 2023 – May 2027

CERTIFICATIONS

- AWS Certified Machine Learning - Specialty
- TensorFlow Developer Certificate