

# ANSHAV DESAI

## Data Scientist

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### PROFILE

Recent graduate with a Bachelor's in Computer Applications from Savitribai Phule Pune University, equipped with a strong foundations in Python, SQL, machine learning, Git/GitHub and data visualization. Experienced with capstone projects involving data pipelines, exploratory data analysis and dashboarding. Eager to contribute to real-world data science projects and apply academic knowledge in an entry-level Data Scientist position.

### SKILLS

Python • Machine Learning • Deep Learning • Data Visualization • SQL • Streamlit • Git/GitHub

### PROJECTS

#### Food Image Classification,

11/2025 – 12/2025

Key skills: CNN, Transfer Learning, PyTorch

- **Designed a complete computer vision pipeline** for 10 class food image classification using PyTorch, including stratified train/validation splits, image preprocessing, data augmentation, and ImageNet normalization.
- **Fine-tuned pretrained CNNs (ResNet-50, ResNet-101, EfficientNet-B0)** with transfer learning using AdamW, cosine learning rate scheduling, mixed precision training, and macro F1-score based checkpointing, achieving **~0.94 macro F1** on the test set using the ResNet-101 model.
- **Evaluated, interpreted, and deployed the model** using confusion matrices and Grad-CAM visualizations, and exported the best model via **TorchScript** with an inference script.

#### Aerial Object Classification, Key Skills: CNN, PyTorch, Streamlit

10/2025 – 11/2025

- Built an end-to-end **binary image classification system (Bird vs Drone)** using **Custom CNN** and **EfficientNetB0 (Transfer Learning)** with TensorFlow/Keras.
- Implemented **data preprocessing, augmentation, class-imbalance handling, fine-tuning, and model evaluation** using accuracy, precision, recall, F1-score, and confusion matrix.
- Achieved **~98.6% test accuracy** through EfficientNetB0 fine-tuning and robust evaluation on unseen aerial images. Deployed a **Streamlit web application** for real-time inference with confidence scores; version-controlled on GitHub and cloud-deployed.

#### Nutrition Paradox: A Global View on Nutrition,

08/2025 – 09/2025

Key Skills: ETL, SQL, PowerBI

- Performed end-to-end **ETL, data cleaning, and feature engineering** on WHO nutrition datasets using Python to analyze obesity and malnutrition trends across countries, age groups, and regions.
- Built a **SQLite analytical database** and executed **25+ SQL queries** to identify temporal trends, demographic disparities, and data reliability using confidence intervals.
- Developed **Power BI dashboards** to visualize insights (regional comparisons, age-wise patterns, obesity vs malnutrition paradox) and support data-driven public health decisions.

### EDUCATION

#### IIT-M GUVI,

05/2025 – 12/2025 | Nashik

IIT-M Advanced Programming Professional & Data Science Mastery

#### Savitribai Phule Pune University, Bachelor of Business

07/2022 – 06/2025 | Nashik

Administration with Computer Applications (BBA(CA))

CGPA: 9.61

### CERTIFICATES

- IIT-B GUVI HCL: Artificial Intelligence
- Cognifront: IoT using Arduino
- Acmegrade MOOD Indigo: Machine Learning
- VIOSA: Corporate Mentorship Program
- MSME (PPDC) AI & ML
- Ashoka Education Foundation: Data Analysis using Excel
- LearnTube.ai: Introduction to Python