ASHIRWAD SINHA

+91 8002376365 ✉ ashirwadsinha739@gmail.com 💼 linkedin.com/in/ashirwad-sinha1 ⚙ github.com/ashir1S 🌐 Portfolio

OBJECTIVE

Motivated MCA student at Thapar Institute of Engineering and Technology with a strong foundation in programming, artificial intelligence, and computer vision. Proficient in C++ and Python, with a passion for solving real-world problems through innovative tech solutions. Continuously learning and driven to build impactful, practical applications.

EDUCATION

Master of Computer Applications　　　　　　　　　　　　　　　　　　　　2024 - Present
Thapar Institute of Engineering & Technology | 7.68 CGPA

Bachelor of Computer Applications　　　　　　　　　　　　　　　　　　　　2020 - 2023
Patliputra University, Patna

TECHNICAL SKILLS

Programming Languages: C/C++, Python, SQL.

Machine Learning & Deep Learning: PyTorch, Scikit-learn.

Data Management & Analysis: MySQL, Pandas, NumPy, Data Visualization (Matplotlib, Seaborn).

Tools & Platforms: Git, VS Code, Jupyter Notebook, Google Colab, Hugging Face Spaces, AWS (basic).

SOFT SKILLS

- Analytical Thinking, Problem Solving, Teamwork, Leadership, Attention to Detail, Communication

PROJECTS

Food-101 Classifier | Python, PyTorch, Vision Transformer (ViT-B/32), Gradio, Hugging Face Spaces　2025
- Fine-tuned ViT-B/32 on the Food-101 dataset (101 classes, 101K images), achieving 80.97% Top-1 accuracy with a custom classification head and robust preprocessing pipeline.
- Deployed as an interactive Gradio Web App on Hugging Face Spaces with device-agnostic inference for real-time food image classification.

Sales Data Analysis | Python, Pandas, NumPy, Seaborn　2025
- Performed data cleaning, preprocessing, and exploratory analysis on sales datasets to identify revenue trends, seasonal patterns, and product performance.
- Generated interactive and publication-quality visualizations with Seaborn and Matplotlib to present actionable business insights.

Dog Breed Classifier | Python, PyTorch, ResNet-50, Gradio, Hugging Face Spaces　2025
- Fine-tuned ResNet-50 on 17,486 images (13,934 train / 3,552 val; 157 breeds), achieving 90.71% validation accuracy.
- Deployed an interactive Gradio demo on Hugging Face Spaces; implemented device-agnostic pipelines, checkpointing, LR scheduling and staged unfreezing for robustness.

Driver Gaze Detection System (In Progress) | Python, PyTorch, OpenCV, NumPy　2025
- Designed and implemented the model architecture (BaseGazeModel & SimpleEyeEncoder); authored the network and forward logic.
- Collaborated on data integration and experiments - team implemented dataset splitting, DataLoaders, and training/testing pipelines (113,134 train / 3,399 val / 3,719 test).

CERTIFICATIONS

- **PyTorch for Deep Learning Bootcamp** — Udemy (Aug 2025)
- **Introduction to Applied Data Science with Python** — Simplilearn SkillUp (2025)