ASHIRWAD SINHA

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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

Bachelor of Computer Applications 2020–2023
Patliputra University, Patna

ACHIEVEMENTS

- **2nd Place (Data Analytics) — National Students' Space Challenge (NSSC) 2025, IIT Kharagpur**
  Secured 2nd position among 250+ teams in a national-level competition organised by IIT Kharagpur in association with ISRO's Kalpana Chawla Space Technology Cell.

SKILLS

Languages & Frameworks: Python, C/C++, SQL, PyTorch, Scikit-learn.
Data & Visualization: Pandas, NumPy, MySQL, Matplotlib, Seaborn.
Deployment & Tools: Hugging Face Spaces, Gradio, Git, VS Code, Jupyter, Google Colab, AWS (basic).
Soft Skills: Analytical thinking, problem solving, teamwork, leadership, 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.

CERTIFICATIONS

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