

Harshil Srivastav

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RESEARCH INTERESTS

Researching deep learning for computer vision, with a focus on egocentric vision. Building this foundation through Stanford's CS231n, applied directly in independent architecture work such as MVSS-Net Lite (ResNet-34 + CBAM attention, Canny-edge supervision). Working toward an original architecture and independent research as groundwork for graduate study in computer vision.

EDUCATION

Vivekananda Institute of Professional Studies – TC

New Delhi, India

B.Tech, AI & ML

Expected Aug 2028

- **SGPA:** 8.93 · **Coursework:** Machine Learning, Deep Learning, DSA, Computer Vision, Probability & Statistics, Linear Algebra.

TECHNICAL SKILLS

ML & Data: PyTorch, OpenCV, TensorFlow, Keras, scikit-learn, NumPy, pandas, Librosa, Matplotlib

Languages & Tools: Python, C++, JavaScript, FastAPI, Streamlit, Git

Concepts: CNN, Supervised Learning, Audio Classification, Backpropagation (from scratch), Anomaly Detection, Gradient Descent, Regularization

Math: Linear Algebra, Probability & Statistics, Optimization

EXPERIENCE

CDAC, Noida (Govt. of India Research Lab)

New Delhi, India

Machine Learning Intern

June 2026 – August 2026

- Built DocForge, a FastAPI-based document forgery detection application, architecting the end-to-end pipeline from document upload through manipulation classification.
- Integrated a custom CNN-based manipulation-detection architecture (MVSS-Net Lite) into the DocForge inference pipeline, enabling automated forgery detection on scanned documents.

LaunchEd Global

New Delhi, India

Machine Learning Intern

June 2025 – Aug 2025

- Engineered a salary prediction model (XGBoost + scikit-learn) achieving 89% R^2 on held-out test data.

Adobe

New Delhi, India

Student Campus Ambassador

Nov 2025 – May 2026

- Drove Adobe tool adoption campus-wide via technical workshops for 100+ students.

VIPS HackerRank Campus Crew

New Delhi, India

Operations Lead

Jan 2026 – Present

- Delivered monthly DSA Saga sessions for a 250+ member club, sustaining 40–50 attendees per month.

PROJECTS

MVSS-Net Lite | *PyTorch, OpenCV* · github.com/harshil-sri/mvss-net-lite

- Designed a ResNet-34 + CBAM attention architecture with Canny-edge supervision for manipulation detection.
- Trained and evaluated the model on the CASIA and DEFECTO forgery-detection datasets.

Deep-Voice Defender | *PyTorch, TensorFlow, Keras, Librosa* · github.com/harshil-sri/deep-voice-defender

- Achieved 99.7% accuracy and 0.999 AUC detecting AI audio via a custom CNN trained on 25K ASVspoof files.
- Optimised inference to sub-50ms latency; resolved 90/10 class imbalance via custom data-augmentation.

Neural Network from Scratch | *PyTorch* · github.com/harshil-sri/makemore

- Rebuilt a multi-layer language model in PyTorch from scratch, implementing backpropagation, batch normalisation, and embedding layers.
- Implemented full forward/backward pass without autograd; tuned learning rate, batch size, and embedding dimensions - converging within 2% of Karpathy's reference loss across training runs.