Anirudh Narang

AI/ML Engineer with 2+ years of experience building and deploying production-grade machine learning and computer vision systems. Strong expertise in deep learning, real-time video analytics, and NLP, with proven impact in finance and policy automation. Skilled in Python, PyTorch, TensorFlow, and end-to-end ML pipeline development.

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WORK EXPERIENCE

System Engineer
Tata Consultancy Service

11/2025 - Present

Project - TRYG - NO Premium Solutions

- Continuing ownership of AI/ML solutions for an enterprise client previously handled at Accenture.
- Ensured seamless knowledge transition, delivery continuity, and production stability.
- Enhancing existing ML pipelines and analytics workflows in collaboration with stakeholders.

Associate Software Engineer
Accenture

09/2023 - 11/2025   *Gurugram, Haryana*

Project - TRYG - NO Premium Solutions

- Built and deployed ML models for financial and policy datasets, improving prediction accuracy by **15%** and accelerating claims processing by **20%** .
- Conducted data analysis and feature engineering on structured/unstructured data (transactions, policy docs, records).
- Integrated ML insights into business dashboards to boost analytics adoption.
- Delivered KT sessions and authored ML workflow documentation.
- **Awarded "Gold Star Award" (2025)** for exceptional contribution to high-impact automation in policy management.

PROJECTS

Emotion Detection using YOLOv8
- Developed and deployed a real-time facial emotion recognition model that **achieved 92% accuracy** across 5 emotion classes on video streams (30 FPS).
- Optimized YOLOv8-based detection pipeline for **low-latency inference**, suitable for real-world applications in surveillance and human–computer interaction.

Custom Hand Gesture Recognition System
- Engineered an LSTM classifier **achieving 95% accuracy** on a custom dataset built with MediaPipe, enabling gesture-based real-time application control.
- Collected and labeled a custom dataset, then integrated predictions into a GUI for **real-time gesture-based application control**.

Traffic Analytics System (YOLO + BoT-SORT + OpenCV)
- Built a real-time traffic monitoring solution with **YOLO-based object detection**, **multi-object tracking**, and a **custom polygon lane marker tool**.
- Enabled vehicle classification (car, bus, truck), unique ID assignment, and zone-wise counting with exports to annotated video and CSV reports.

SKILLS

Programming Languages: Python, Java, SQL

ML/AI: Deep Learning, Computer Vision, NLP, Predictive Modeling, supervised and unsupervised learning, Transformers (BERT, GPT), GANs

Frameworks & Libraries: Keras, TensorFlow, PyTorch, Scikit-learn, OpenCV, Pandas, NumPy

Soft Skills: Analytical Thinking, Problem Solving, Communication, Collaboration, Adaptability

Data Visualization: Tableau, Excel, PowerBI

Tools & Platforms: MySQL, FastAPI, JIRA, GitHub, Docker, Flask

ACHIEVEMENTS

Vice Chairperson - IEEE BPIT (Research Society) (08/2022 - 07/2023)
Led a team of 50+ students and organized 10+ workshops and events, increasing student participation in technical activities.

Gold Star Award - Accenture (02/2025 - 06/2025)
Recognized for excellence in delivering high-impact automation solutions.

EDUCATION

Bhagwan Parshuram Institute of Technology (08/2019 - 08/2023)
Bachelor of Technology (B.Tech.) in Electronics and Communication Engineering with Percentage 91.8%

Class XII (07/2018 - 07/2019)
CBSE with Percentage 89%

LANGUAGES

English
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Hindi
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