ADITYA MANOJ SHINDE

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PROFESSIONAL SUMMARY

Third-year B.Tech (Information Technology - Data Analytics) student specializing in applied Machine Learning, Deep Learning, and Computer Vision. Experienced in building end-to-end ML pipelines from dataset annotation, EDA, and model benchmarking in PyTorch and TensorFlow to production deployment using FastAPI, Gradio, and Hugging Face Spaces. Proficient in Python, SQL, and TypeScript/JavaScript, seeking an entry-level Machine Learning / AI Engineer internship or role to build scalable, data-driven AI systems.

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript/TypeScript

ML & Deep Learning: PyTorch, TensorFlow, TensorFlow.js, scikit-learn, OpenCV, YOLO, Transformers, NumPy, Pandas

Deployment & APIs: FastAPI, REST APIs, Gradio, Hugging Face Spaces, Django, Next.js, React, Streamlit

Databases: PostgreSQL, MySQL, MongoDB

Tools & Cloud: Git, GitHub, Docker, AWS, Linux, Modal (Cloud GPU), Label Studio

Core Concepts: Computer Vision, Deep Reinforcement Learning (DQN), Transfer Learning, NLP (TF-IDF, LLMs), Model Evaluation, EDA, Feature Engineering, Data Structures & Algorithms

EDUCATION

B.Tech, Information Technology (Data Analytics) | Aug 2024 – Expected Apr 2028

MIT ADT University, Pune — CGPA: 8.2/10

EXPERIENCE

Summer Intern, Artificial Intelligence and Machine Learning

Indian Institute of Computer Technology | Remote | Jun 2026 – Jul 2026

- Built an end-to-end NLP phishing email detection pipeline using TF-IDF vectorization and Multinomial Naïve Bayes, trained on 7,905 cleaned and deduplicated email samples from public fraud datasets.
- Performed text preprocessing, feature extraction, and error analysis via precision, recall, F1-score, and confusion matrices (98.6% accuracy / 97.5% F1-score); deployed a live demo on Hugging Face Spaces and a REST API on FastAPI Cloud.

PROJECTS

Automated Optical Inspection (AOI) for Gems Tablet Detection | GitHub

Tech stack: Python, YOLO11s, YOLOv8s, Computer Vision, FastAPI, Gradio, ByteTrack, Label Studio, Modal (Cloud GPU), HTML, CSS

- Built a real-time computer vision quality inspection system to detect normal and damaged Cadbury Gems tablets on a custom Label Studio-annotated dataset, trained on Modal cloud GPUs and deployed on Hugging Face Spaces with FastAPI/Gradio, MJPEG streaming, and ByteTrack tracking.
- Trained and benchmarked six YOLO model variants (including YOLO11s and YOLOv8s), achieving [X]% mAP@50 and [X] FPS inference; engineered BoxSmoother, agnostic NMS, deduplication, and color classification with a live performance analytics dashboard.

StyleGAN2 Deepfake Image Detector | GitHub

Tech stack: PyTorch, CNN, Transfer Learning, Computer Vision, Google Colab Pro, Hugging Face Spaces

- Engineered a hybrid dual-stream CNN architecture in PyTorch using transfer learning to detect AI-generated (StyleGAN2) deepfake face images across spatial and frequency artifacts.
- Trained and evaluated on 100,000 balanced images from the Kaggle “140k Real and Fake Faces” dataset, achieving [X]% validation accuracy and [X] AUC-ROC; deployed as an interactive demo on Hugging Face Spaces.

Self-Driving Car Simulation using Deep Reinforcement Learning | GitHub

Tech stack: JavaScript, TensorFlow.js, Double DQN, HTML5 Canvas, CSS, IndexedDB

- Built a browser-based autonomous driving simulation using Double Deep Q-Network (DQN) in TensorFlow.js, enabling an RL agent to learn lane navigation and obstacle avoidance via raycast distance sensors, experience replay, target networks, and epsilon-greedy exploration.
- Developed a live training dashboard with real-time Q-value visualization, reward tracking, and IndexedDB model persistence for zero-backend browser inference and checkpointing.

CERTIFICATIONS

Introduction to FastAPI and Backend Development Fundamentals — Packt — Jan 2026 — Credential ID 8XP22U4BAY6A

Artificial Intelligence Foundations: Machine Learning — LinkedIn Learning — Mar 2025 — Verify Credential

Introduction to Git and GitHub — Coursera – Google — Dec 2024 — Credential ID F9FV6QGYEXCD

ACHIEVEMENTS

- **Hugging Face Small Build Hackathon** – Built two AI mini-apps (a multi-persona image debate app and an anime-themed coding assistant) powered by Gemma 4 12B on Hugging Face Spaces using ZeroGPU.