

Adeel Subhan

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About Me

I'm an AI and ML Engineer who enjoys designing solutions and writing code. I have a rigorous work ethic that allows me to adapt to new challenges and meet deadlines.

Education

FAST NUCES, BS in Artificial Intelligence

- **Awards:** 2x Deans List (awarded if SGPA is 3.5 or more)
- **Coursework:** Artificial Neural Networks, Machine Learning, MLOps, Parallel and Distributed Computing
- **Teaching Experience:** Teaching Assistant (Natural Language Processing)

Experience

Machine Learning Engineer, Cowlar Inc. (YC-W17)

Feb 2023 – Present
(1yr 7mo)

- Developed and deployed machine learning systems to automate industrial processes, achieving 100% accuracy and a False Acceptance Rate (FAR) of 0.001% using object detection and classification models.
- Designed and implemented a car inspection system using speech-to-text models, large language models (LLMs), and object detection models to enhance car inspection process.
- Engineered, trained, and optimized machine learning system for self-checkout smart carts using video classification models.
- Built retail tag information extraction system using object detectors, classification models, and OCRs.
- Developed and optimized facial recognition system using object detection, FaceNet, and SVMs for highly accurate identity verification.
- Streamlined deployment pipelines with CI/CD, Ansible, and MLflow for fully automated machine learning model delivery.
- Deployed scalable APIs with NGINX load balancing, enabling concurrent multi-model inferences.
- Reduced training time by 4x through the implementation of Multi-Node Training using DDP and NCCL.
- Designed and implemented comprehensive annotation management schemas, ensuring efficient tracking of annotations, versioning, and annotator statistics.
- Developed a comprehensive annotator evaluation tool to assess their performance on segmentation, object detection, key-point labeling, and video annotation tasks, utilizing a Flask-based backend.

Machine Learning Engineer, Freelance

Sep 2021 – Feb 2023
(1yr 5mo)

- Designed and implemented an automated video generation tool powered by LLMs for automated content creation.
- Developed and deployed an e-commerce market analysis tool with a Flask backend, providing actionable insights for market trends and business strategies.

Technologies & Certifications

Languages: C++, Python, C, JavaScript, Assembly, Bash

Machine Learning Tools: TensorFlow, PyTorch, LangChain, Ollama, HuggingFace, OpenCV, MLflow, WandB, DVC

Technologies: Git, Docker, AWS, MongoDB, SQL

Certifications: AWS Certified Practitioner