

Suyash Tambe

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About Me

Final-year B.Tech student specializing in Artificial Intelligence and Machine Learning with hands-on experience in AI model development, backend development, and deploying AI-driven applications. Skilled in building end-to-end AI pipelines, integrating models with web backends, and deploying solutions on cloud platforms. Experienced in working across the business lifecycle—from understanding requirements and documenting workflows to development, testing, and deployment. Passionate about applying AI to real-world problems, collaborating across teams, and continuously learning in dynamic, enterprise environments.

Education

Symbiosis Institute of Technology, Pune, B.TECH in Artificial Intelligence and Machine Learning

Aug2022–Present

Coursework: Data Structures & Algorithms, Operating Systems, Database Systems, Networking, Machine Learning, Deep Learning, Business Intelligence, Cloud Computing, Python

Experience

Developer, Janhvi Foundation—NGO in Pune

July2024–Dec2024

- Designed and launched a scalable web platform for Janhvi Foundation using Next.js, Express, and SQL, with optimized deployment on AWS for high performance and rapid loading.
- Boosted community engagement by integrating detailed welfare scheme information, enhancing user accessibility and increasing awareness.

Projects

Quote Generator

<https://github.com/suyashtambe/Image-captionz>

- Developed an AI-powered quote generation system using a custom-trained GPT-2 model on a curated quotes dataset, enabling dynamic quote creation based on user-defined tags.
- Tools Used: Python, PyTorch, Torchvision, Transformers

Proof Vision - DeepFake Video and Audio Detector

<https://github.com/suyashtambe/deepfakevideo>

- Engineered and maintained a complex full-stack application, demonstrating an end-to-end understanding of system architecture essential for effective, deep-level troubleshooting.
- Integrated and configured multiple technologies (Python, Java, AWS, PostgreSQL), showcasing the ability to learn and manage diverse software systems.

Secure ML Inference using OP-TEE (Industrial Problem CDAC) <https://www.linkedin.com/posts/suyashtambe>

- Solved an industrial problem by CDAC focusing on secure and verifiable ML inference in Trusted Execution Environments.
- Trained and embedded a Logistic Regression model for breast cancer prediction into OP-TEE's Trusted Application (TA).
- Established CA-TA communication and integrated conceptual Zero-Knowledge Proof (ZKP) verification.
- Built and compiled TA successfully; currently resolving QEMU rootfs mount issue for runtime testing.

Sketch2Photo using Pix2Pix Gan

<https://github.com/suyashtambe/sketch-to-photo>

- Developed a Sketch-to-Photo Generation System using Pix2Pix GAN, transforming hand-drawn sketches into realistic images.
- Built a full-stack web application with React (frontend) and Flask (backend)
- Implemented U-Net generator and PatchGAN discriminator using PyTorch.

AI & Cloud Certifications

- IBM Artificial Intelligence Fundamentals [Credly Link](#)
- IBM Data Fundamentals [Credly Link](#)
- Google Cloud Skill Badges [Credly Link](#)