

CHIRAG SAWANT

Thane, Maharashtra | sawantch099@gmail.com | [LinkedIn](#) | [GitHub](#) | [Personality Profile](#)

Passionate about technology, I discovered my interest in AI through video games and robotics. I enjoy hands-on learning, problem-solving, and staying updated with emerging tech. Currently focused on building AI solutions that benefit humanity and the planet.

CAREER OBJECTIVE

Motivated Artificial Intelligence and Machine Learning undergraduate with strong skills in cloud-based ML solutions, Generative AI, Agentic AI, and Automation tools. Passionate about experimenting with AI-driven automation and intelligent agents to build scalable, real-world applications. Eager to contribute technical expertise, problem-solving ability, and innovation as an AI engineer.

EDUCATION

B.E. in Artificial Intelligence and Machine Learning | Mumbai University (Graduating in June 2026)
Pursuing Bachelors in Computer Science Engineering with specialization in Artificial Intelligence and Machine Learning from A.P. Shah Institute of Technology, Thane.

Higher Secondary Certificate (HSC), Science | Scored: 96.5% (2021)
R.J. Thakur Junior College, Wagle Estate, Thane.

Secondary School Certificate (SSC) | Scored: 86.4% (2019)
S.E.S. High School, Panchpakhadi, Thane.

EXPERIENCE

AI ENGINEERING INTERN | KAFKA TECHNOLOGIES (May 2025 – July 2025)

- Gained hands-on experience with **VectorDB for RAG-powered AI Agents, Prompt Engineering, n8n & Langflow workflows, and full-stack integration (Supabase, Next.js, Python).**
- Designed a **System Impact Analysis AI Agent** to support business analysts and project managers in decision-making for multi-agent project management systems.
- Developed the **Psychometric Assessment Scoring Engine** leveraging AI agents to evaluate user responses, generating detailed psychometric, personality, and learning style analysis.
- Researched and experimented with **multimodal AI models** for text-to-video generation, exploring cutting-edge architectures in video synthesis.
- Strengthened skills in **backend & frontend development**, API integration, and collaborative problem-solving while contributing to innovative AI-driven solutions.

VIRTUAL INTERN: AI-ML FOUNDATIONS AND CLOUD ARCHITECTING | AWS ACADEMY (Oct 2022 – Jan 2024)

- Diligently explored **AWS Lambda and S3 services**, showcasing a proactive approach to cloud computing.
- Developed practical skills in training, testing, and deploying Machine Learning (ML) models on the AWS cloud platform.
- Proficiently utilized cutting-edge services such as **Amazon SageMaker, Amazon Comprehend and Amazon Forecast.**
- Applied acquired knowledge to create a forecast, design a facial recognition.

SKILLS

- **Programming Languages:** Strong Proficiency in **Python**. Familiar with Javascript and Typescript.
- **Generative AI, LLMs, Prompt Engineering, RAG, Agentic AI, Nvidia Tech Stack**
- **Frameworks:** Familiar with **FastAPI, Flask, Django, Streamlit, LangChain, Gradio** and **Insomnia** for API testing
- **Cloud:** AWS, Google Vertex AI, Nvidia GPU Cloud (NGC)
- **Databases:** Supabase (SQL), MongoDB Atlas (NoSQL), Vector DBs: Pinecone, FAISS, Milvus
- **Version Control and DevOps:** Git, GitHub Actions, Linux Bash, Docker, ML Flow, Hugging Face
- **AI & Automation Tools:** **N8N**, Dify, Langflow, GitHub Copilot, Chat GPT, Qwen Chat, DeepSeek, Claude, Gemini, Ollama
- **Soft Skills:** Leadership, Team Building, Teamwork, Strong Communication, Problem Solving and Rational Thinking.
- **Linguistic Skills:** English, Marathi, Hindi, French.

COURSES AND CERTIFICATIONS

- **Efficient Customizations of Large Language Models, NVIDIA** (Oct 2024)
Attended Jensen Huang's Fireside Chat live and completed this instructor-led workshop during NVIDIA AI Summit, Mumbai
- **High Performance Computing** (Aug 2025)
Completed this certification during the workshop under the *National Supercomputing Mission (NSM)*, Govt. of India in collaboration with C-DAC Pune.
- Certified in **AWS Cloud Foundations** and **Cloud Architecting**, with additional **NVIDIA certifications** including *Building RAG Agents with LLMs*, *Efficient LLM Customization*, *Deep Learning*, *Prompt Engineering*, *OpenACC*, and *CUDA Python*.

PROJECTS

- **PSYCHOMETRIC ASSESSMENT ENGINE** (N8N, React Typescript, Supabase, Google Gemini, GitHub Actions, Claude, Oracle Cloud)
 - Designed and implemented an AI-driven psychometric evaluation and scoring engine.
 - Developed intelligent agents capable of analyzing user responses to structured questions, generating detailed reports on personality traits, learning styles, and psychometric profiles.
 - Enhanced the assessment process by automating evaluation, improving accuracy, and reducing manual intervention for large-scale user analysis.
- **RAG BASED DOCUMENT Q&A CHATBOT** (Python, Streamlit Cloud, Gemini, FAISS, LangChain)
 - A lightweight Retrieval-Augmented Generation (RAG) chatbot processes PDFs and converts them into vector embeddings using FAISS for efficient document indexing.
 - It leverages the Gemini 1.5 Flash model via API to deliver intelligent, context-aware responses, making it ideal for document-based Q&A and smart knowledge retrieval.
- **STABLE DIFFUSION INFERENCE PIPELINE** (Python, PyTorch, ONNX Runtime, Docker, Nvidia TensorRT, Triton Inference Server)
 - Developed an efficient text to image generation pipeline using Stable Diffusion, leveraging the powerful Nvidia DGX Station A100 GPU to accelerate model training and inference.
 - Deployed the model at scale using Nvidia Triton Inference Server to optimize resource utilization, achieve low-latency responses, and support concurrent user requests with high performance.

ACCOMPLISHMENTS

- Programmed a 6-DOF **humanoid robot** with camera and speech output using **Arduino Mega and Raspberry Pi**, and was entrusted to present it as AP Shah Institute's official Humanoid Robot to the National Board of Accreditation.
- Got selected for Mumbai Cluster Level, Maharashtra State Skills Competition, **IndiaSkills 2023-24 in Cloud Computing** domain.
- Runner -Up in **Kaggle Competition** in which developed a classification model using **CatBoost algorithm** (GPU accelerated) with **98% inference accuracy** for predicting Drug status.
- Achieved **District Rank 15** in the *Maharashtra State Scholarship Examination (Class 4)* and secured a District Rank again in *Class 8*.
- Excelled in **Mathematics Olympiads**, achieving benchmarks in multiple International and National-level exams.
- Selected for the 2nd level **Practical Examinations of Dr. Homi Bhabha Balvaidnyanik Competition** in Class 9, showcasing strong aptitude in science and applied learning.

LEADERSHIP AND EXTRA-CURRICULARS

- **Lead Speaker** and **Ambassador** of Active AIML Club at AP Shah Institute of Technology.
 - **Mentorship & Guidance:** Guided juniors in their academic and technical projects, resolving queries and providing hands-on support.
 - **Faculty Assistance:** Assisted faculty members in their PhD research projects and technical problem-solving.
 - **Sports Leadership:** Captained the college **Volleyball team** to victory in an inter-college competition.
 - **Badminton Enthusiast:** Actively participated in multiple **badminton tournaments**, showcasing teamwork, discipline, and competitive spirit.
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