SAJID TAMBOLI
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Education

Ajeenkya DY Patil School of Engineering — **Lohegaon, Pune**

Bachelor of Technology in Artificial Intelligence and Data Science; Minor in Robotics — *Expected May 2026*

- Cumulative GPA: 7.82 (Up to Semester 6)
- Semester GPA: 9.80 (Semester 6)

Relevant Coursework

- Data Science
- Software Engineering
- DSA
- DBMS-SQL
- Deep Learning
- Machine Learning
- NLP
- Hadoop
- Robotics
- Django
- LLM
- R

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, SQL, R
Developer Tools: VS Code, Jupyter, Google Cloud Platform, Android Studio, Google Colab, GitHub
Technologies/Frameworks: Linux, Django, Flask, React
Libraries/Tools: TensorFlow, OpenCV, NLTK, BeautifulSoup, Pandas, NumPy, Matplotlib, Scikit-learn, XGBoost, TextBlob, SBERT, Stable Diffusion, ARIMA, SQLite
Specialized Areas: Deep Learning, Machine Learning, NLP, Computer Vision, Emotion Classification, Sentiment Analysis, Sequence Modeling, Generative AI, CRUD Applications, REST APIs, Full-Stack Web Development

Projects

Picasso: Emotion-to-Art Generator | *Python, PyTorch, BERT, SBERT, Stable Diffusion, HuggingFace* **April 2025**

- Built a multimodal AI pipeline that detects emotions from text, voice, and facial cues to generate personalized art.
- Fine-tuned BERT on GoEmotions; enhanced with SBERT and datasets like EmpatheticDialogues and NRC VAD.
- Linked emotion classifier with Stable Diffusion to create dynamic, high-quality art from real-time emotional input.
- Added GPT-based poetic interpretations to explain the emotional context of each generated artwork.
- Enabled adaptive style learning and feedback loops to personalize artistic output over time.

E-Commerce CRUD Web Application | *Django, Python, HTML/CSS, SQLite, Bootstrap* **February 2025**

- Developed a modular e-commerce site with four Django apps: Homepage, Clothing, Electronics, and Payment.
- Implemented full CRUD functionality and admin dashboard using Django's framework and authentication.
- Integrated an admin dashboard for product moderation using Django's built-in admin panel with secure authentication.
- esigned user-friendly UI with cart, navigation, and About Us page; used SQLite for backend storage.

Lip Reading Deep Learning Model | *Python, TensorFlow, OpenCV, NumPy* **April 2024**

- Developed a lip reading model inspired by LIPNET with a customized architecture and loss function.
- Processed and trained on 1001 video clips (4–8s each), achieving 90% accuracy on a 50:50 train-test split.
- Built a modular, reusable Colab pipeline for video preprocessing, model training, and evaluation.

Leadership Experience

Google Developers Group on campus - ADYPU **December 2024 – Present**

AIML Lead *Pune, Maharashtra*

- ∗ Founded and led a 150+ member ML club exploring machine learning research through theory and hands-on coding.
- ∗ Hosted sessions like AlexNet (2012), guiding 100+ students through CNN fundamentals and PyTorch implementation.
- ∗ Led a 2-day workshop comparing regression and neural networks for house price prediction using real-world data.

Certifications & Virtual Internship

Google Cloud (google cloud skill boost Platform) **2024 - Present**
Covering various fields of Machine Learning, Gen AI, Data Engineering on GCP and using it's tools.

Software Engineering Job Simulation (Virtual Internship) (J.P. Morgan Chase & Co., Forage) **May 2024**
Completed real-world simulation involving interface building and data visualization tasks.

Google Cloud Computing Foundations (4-Course Program) (Google, Coursera) **Sept 2023**
Topics covered: Cloud Computing Fundamentals, Infrastructure, Networking & Security, Data/ML/AI in GCP.