

# Tejas Patil

## AI/ML Engineer

✉ tejas.patilt2802@gmail.com ☎ 7264919570 📍 Pune, Maharashtra

🌐 [linkedin.com/in/tejas-patil-623430218](https://www.linkedin.com/in/tejas-patil-623430218)

## PROFILE

AI/ML Engineer with experience in building computer vision systems, LLM-powered chatbots, and IoT solutions. Specialized in model optimization and deployment, improving image processing accuracy by 40% and automating support workflows to reduce manual workload by 60%.

## PROFESSIONAL EXPERIENCE

### Software Development Engineer

06/2024 – present

scanO

Pune

#### System Performance & Monitoring

- Improved ML service monitoring with Grafana, reducing downtime by **30%** and accelerating issue resolution by **25%**.

#### Computer Vision & Imaging

- Enhanced camera calibration, increasing distance accuracy by **25%** and reducing false readings by **40%** for clearer dental images.
- Built **3D dental models** with NeRF, cutting reconstruction time by **35%** and improving patient diagnosis.

#### Generative AI for Imaging

- Boosted dataset quality with a custom GAN, improving model training accuracy by **40%**.
- Fine-tuned Stable Diffusion and ControlNet, increasing dental smile correction accuracy by **25%**.

#### Hardware & IoT

- Migrated applications to **Raspberry Pi 5**, improving processing speed by **20%** and delivering interactive visual feedback for better user experience.
- Configured an **Adafruit screen** with GPIO pins to display interactive visual feedback such as **animated smiles**, enhancing user engagement and photo capture experience.

#### Customer Support Automation

- Built an **LLM-powered chatbot**, automating **60%** of customer queries and reducing response time by **45%**.

## EDUCATION

### Master of Computer Applications

07/2023 – 05/2025

SRI BALAJI UNIVERSITY

Pune

8.02 CGPA

### Bachelor of Business Administration in Computer Applications

07/2020 – 05/2023

MODERN COLLEGE OF COMMERCE AND COMPUTER STUDIES

Pune

9.02 CGPA

## PROJECTS

### YouTube Adview Prediction

(Machine Learning, Exploratory Data Analysis, Scikit learn)

- Developed a machine learning pipeline for predicting YouTube ad views (15,000+ video records). Achieved 88% model accuracy using XGBoost and deployed a Flask-based API on Render for real-time predictions.

## CERTIFICATES & ACHIEVEMENTS

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- Python & Data Science : Ethan’s Tech
- Generative AI : LinkedIn & Deep Learning
- Machine Learning : Internship Studio
- Big Data Engineering with Hadoop, Spark, Databricks, Azure, GCP - ongoing
- Hacker rank: Achieved 400+ points in Python and SQL and achieved a badges

## SKILLS

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### Programming Languages

Python, JavaScript, HTML, CSS

### Data Science

Machine Learning, Deep Learning, Data Analytics, Statistics, Generative AI, LLM Chatbot

### Version control

Github,, GitLab, Grafana, Linux, Shell Scripting

### Cloud & Big Data technologies

GCP, Databricks, Apache Spark, Apache Hadoop

### Framework

OpenCV, Django, Langchain, Flask, Nerf studio, Selenium, Flask, Langchain

### Libraries

Pandas, Numpy, Matplotlib, Seaborn, Scikit Learn, Tensorflow, Keras, Transformers

### Databases

SQL (MySQL, PostgreSQL), NoSQL(MongoDB), TimescaleDB