

# VISHAL LOTAN PATIL

FULL-STACK ML DEVELOPER | 10+ GITHUB PROJECTS | BRIDGING WEB & AI

📞 9370599362 ✉️ vishal.patil0111@gmail.com 🏠 Savatanagar, Cidco, Nashik, India.

## SOCIAL

🌐 Vishalpatil0111 🌐 vishalpatil0111 📁 Portfolio

## CAREER OBJECTIVE

- AI/ML enthusiast with a strong foundation in Python, deep learning, and data analysis.
- Skilled in TensorFlow, Scikit-Learn, SHAP, NumPy, and Pandas for building interpretable ML models.
- Built healthcare-focused projects like lung disease and brain tumor prediction dashboards.
- Looking to grow expertise in deploying real-world AI solutions through scalable pipelines.

## EDUCATION

### BACHELOR OF ENGINEERING (B.E.) IN COMPUTER SCIENCE

GES R.H.Sapat College of engineering | 2021 - 2024

8.37/10

## WORK EXPERIENCE

### PYTHON DEVELOPER - INTERN

Zabuza Labs | Sep 2024 - Feb 2025

- Built and deployed Python APIs integrating Generative AI features such as text-to-image and summarization.
- Improved system performance by optimizing backend response times and leveraging asynchronous processing.
- Collaborated with frontend teams to deliver seamless AI-powered user experiences.

## CORE SKILLS

- Languages:** Python, JavaScript, SQL.
- Web :** Html, Tailwindcss, React.
- ML & AI:** TensorFlow, Scikit-Learn, SHAP, NumPy, Pandas.
- Visualization & EDA:** Seaborn, Matplotlib.
- Data Handling:** MySQL, MongoDB, Large-scale datasets.
- Tools & Platforms:** Google Colab, Jupyter Notebook, Git, GitHub, Streamlit, Hugging Face.
- Cloud & Deployment:** Render, Vercel, Snowflake.

## PROJECTS

### 1. Lung Disease Prediction Dashboard

React, Flask, Random Forest, SHAP

- Developed a healthcare-focused ML dashboard to predict lung disease risk based on clinical input 80%.
- Integrated SHAP values to explain model decisions, enhancing model interpretability for medical professionals.
- Enabled full user flow: form submission, backend prediction, dynamic SHAP visualization, and result classification.
- Frontend built with React, styled using Tailwind CSS; backend API in Flask.

### 2. Stable Diffusion Image Generation

Python, Hugging Face Diffusers, Streamlit.

- Built a Streamlit web application to generate images from text prompts using Stable Diffusion pipelines.
- Used Hugging Face's pre-trained models to deliver high-resolution outputs suitable for creative and content-generation tasks.
- Implemented efficient prompt handling, safety checks, and optimized generation for quick rendering.

### 3. Brain Tumor Detection

TensorFlow, CNN, Transfer Learning, Flask

- Built a deep learning model using CNNs to classify MRI scans as tumor or non-tumor with 92% accuracy.
- Applied transfer learning with pre-trained models to address limited medical dataset availability.
- Performed extensive data augmentation to improve model robustness and reduce overfitting.
- Built an interactive Flask API for local testing of predictions using uploaded MRI images.