VISHAL LOTAN PATIL

SOFTWARE ENGINEER

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SOCIAL

Vishalpatil0111 Vishalpatil0111 Vishalpatil0111 Portfolio

SUMMARY

Full-Stack Developer & ML Engineer with hands-on experience building and deploying AI-powered web applications. Proficient in React, Flask, TensorFlow, and SHAP, with a strong foundation in Python and JavaScript. Developed end-to-end solutions in e-commerce, medical imaging, and GenAI. Passionate about solving real-world problems through scalable, intelligent systems.

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

- **Programming Language** : Python , Javascript.
- **Frontend** : Reactjs, Threejs, EJS Templating, HTML5, CSS3, Tailwind CSS, GSAP.
- **Backend** & Database : Node.js, Express.js, MongoDB, MySQL.
- **AI & Machine Learning** : TensorFlow, Scikit-Learn, NumPy, Pandas.
- **Tools & Platform** : Git, Github, Gcollab.
- **Cloud & Warehouse** : Snowflake

PROJECTS

🧠 **Lung Disease Prediction Dashboard**

- **Tech Stack**:React + Flask + Random Forest + SHAP
- Built an ML-powered web dashboard that predicts lung disease and explains risks using SHAP values. Deployed using Vercel and Render. Includes dynamic visualizations, risk categorization, and full user flow from form to insights.

🎨 **Stable Diffusion Image Generation**

- **Tech Stack**: Python, Hugging Face, Diffusers, Streamlit
- Created a web interface to generate images from text using Stable Diffusion.
- Integrated with Hugging Face pipelines to provide artist-quality results for content creators.

🧠 **Brain Tumor Detection**

- **Tech Stack**: TensorFlow, Flask, CNN, Transfer Learning
- Achieved 92% accuracy on MRI-based brain tumor classification using convolutional neural networks.
- Solved data scarcity by applying augmentation and leveraging pre-trained models.

ACHIEVEMENTS & COMMUNITY

- 🧠 **Solved 100+ problems on LeetCode**
- 🏅 **Badges in SQL & Pandas**
- 👨‍💻 **GitHub: 10+ Projects – Full-stack apps, ML models, and GenAI tools**