



Vansh KHATRI  
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[github](#) | [linkedin](#) | Portfolio

## EDUCATION

### NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR

2023 - 2027

B.TECH IN COMPUTER SCIENCE AND ENGINEERING

- GPA: 8.10/10

### SSAV PUBLIC SCHOOL, AGRA

2023

CENTRAL BOARD OF SECONDARY EDUCATION (CBSE)

- Achieved 91.47% in Senior Secondary School

## PERSONAL PROJECTS

### CUSTOMIZABLE SLACK BOT FOR SPAM DETECTION

[github](#)

- Built SmartSpam Sentinel, a fully customizable Slack bot that detects and flags spam in real time, enhancing workspace communication and security. This bot leverages machine learning and NLP techniques to accurately identify spam, adapting to the unique needs of each workspace.
- Developed an end-to-end ML pipeline with DVC for data versioning and MLflow for experiment tracking. Automated processes for data ingestion, preprocessing, and feature engineering, enabling efficient model selection, tuning, and deployment through a REST API.

### MULTI-DISEASE AI DIAGNOSIS SYSTEM WITH REAL-TIME MEDICAL INSIGHTS

[github](#)

- Developed an early disease diagnosis system supporting five conditions: tuberculosis, skin conditions, lung cancer, skin cancer, and pneumonia.
- Trained DenseNet121 and ResNet50 models with transfer learning on ImageNet weights for tuberculosis and skin conditions.
- Fine-tuned three Google ViT models using the Hugging Face Transformers library for lung cancer, skin cancer, and pneumonia detection.
- Built an interactive UI in Streamlit with custom CSS and JavaScript, supporting Hindi language for broader accessibility.
- Integrated OpenAI API to provide medical advice and confidence-based do's and don'ts based on model predictions.
- Utilized Plotly to create visualizations for confidence gauges and probability distributions, enhancing interpretability.

### VDST-PYTHON

[github](#) [PyPI.org](#)

- Published **VDST** (Versatile Data Science Templates), a Python library providing customizable templates to streamline data science project setup and standardize workflows.

## SKILLS

**PROGRAMMING LANGUAGES** *Experienced:* Python | C++ *Familiar:* Javascript | C | Bash

**SOFTWARE DEVELOPMENT** Programming Paradigms | GIT | CLI | MLOps Lifecycles

**FRAMEWORKS & LIBRARIES** Scikit-learn | Flask | Django | FastApi | PyTorch | Tensorflow

## EXTRA

- **Technical Executive:** Sphinx'24 Rajasthan's Largest Techno-management Fest