## PRANAY KARVI

Data Science Enthusiast | Proficient in Python, Data Analysis & Machine Learning | Second-Year CSE Student at VIT Chennai



## PERSONAL DETAILS

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## SKILLS

Python

C++

С

Java

Web Development

Data Visualization

Data Analysis

## PROFILE

I am a passionate Computer Science Engineering student at VIT Chennai, deeply engaged in data science, machine learning, and AI-driven problemsolving. With a strong foundation in Python and C++, I specialize in developing and optimizing predictive models, extracting meaningful insights from complex datasets, and leveraging statistical techniques for data-driven decision-making.

Beyond my projects, I actively contribute to open-source communities, collaborating on AI and data science initiatives to drive innovation. My continuous learning approach keeps me at the forefront of emerging technologies, ensuring that I stay adaptable and ready to tackle real-world challenges. With a keen eye for patterns hidden in data, I am eager to contribute to impactful projects and collaborate with like-minded professionals.

## EDUCATION

Bachelor of Technology in Computer Science and Engineering, Data Science Vellore Institute of Technology. Chennai	Aug 2023
Secondary Education	May 2021
Seven Square Academy, Mumbai	
<b>Certificates</b> Google Data Analytics Specialization	Aug 2024
Accenture North America - Data Analytics and Visualization Job Simulation	Mar 2024
Introduction to Data Science	Feb 2024
HackerRank Certified Problem Solving(Basic)	Dec 2023

#### PROJECTS

#### **Apple Stock Price Prediction**

This project demonstrates the use of advanced deep learning architectures, specifically LSTM (Long Short-Term Memory) and GRU (Gated Recurrent Unit) layers, to forecast Apple stock prices. While primarily focused on Apple stock, the model is flexible enough to handle datasets with similar fields (like open, close, high, low prices).

#### **Plant Disease Classification**

This project is a machine learning web application utilizing a Convolutional Neural Network (CNN) to make predictions based on user input data. The project includes a Jupyter notebook for training and evaluating the CNN model and a Streamlit-based web application for interaction with the model.

**Deep Learning** 

Machine Learning

NumPy and Pandas

TensorFlow

MySQL

React.js

### **Remote Health Monitoring Systems**

A web application for health condition assessment, designed to provide predictive insights based on user-provided medical data. This project leverages Streamlit to create a user-friendly interface and integrates machine learning models to provide accurate health predictions.

## Stroke Prediction WebApp

This is an End-to-End Machine Learning based project which further provides the user with an interface to give inputs on an webapp through which he/she can get the prediction whether they stand a chance for stroke or not for early diagnosis.

## **Topography Classifier**

The Topography Classifier project utilizes deep learning techniques to classify satellite images into different topographical categories such as sky/cloud, water, desert, and forest. The project aims to accurately predict and analyze land features, offering valuable insights for environmental monitoring and land management.

### ChatBot-1. O

The ChatBot-1.O Machine Learning project is a Python-based application that leverages machine learning algorithms and natural language processing (NLP) techniques to provide automated assistance for collegerelated inquiries. The chatbot aims to enhance user experience by delivering quick and accurate responses to user questions.

#### Sakha

This is an OpenCV based project which basically allow the user to use cursor virtually on their system using hand gestures

# **OPEN-SOURCE CONTRIBUTIONS**

## Microsoft365DSC

Improved configuration automation by fixing module inconsistencies and enhancing PowerShell scripts.

#### Apache Gravitino

Contributed fixes to metadata storage and query optimization, improving database performance.

## Microsoft365DSC

Enhanced deployment script reliability by resolving JSON serialization issues.

## Apple CoreMLTools

Fixed W8A8 Conv3D quantization failure, improving model conversion stability.

# INTERNSHIPS

#### **Research Intern**

MASAO UEKI, Nagasaki University, Japan

Developing and optimizing deep learning models for Alzheimer's disease detection using MRI and PET scans. Implementing CNN architectures like VGG16, Xception, DenseNet201, and EfficientNetB3 with transfer learning and fine-tuning. Enhancing model interpretability using Explainable Al techniques like SHAP and LIME. Conducting data preprocessing, augmentation, and multi-modal data integration.