

# Rohit Gomes

AI Engineer | Deep Learning Enthusiast | ML Developer | Aspiring Researcher | Final-Year B.Tech CSE (AI-ML)

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Profiles

[RohitXJ](#)  
GitHub

[Rohit Gomes](#)  
Linkedin

Summary

AI Engineer specializing in machine learning, deep learning, and model interpretability. Experienced in end-to-end ML pipelines, real-world deployment, and model explainability using SHAP. Strong Python skills with practical expertise in PyTorch, scikit-learn, and structured data modeling. Adept at building scalable, interpretable solutions in classification, NLP, and computer vision tasks. Actively leading projects and research initiatives in both academic and applied AI domains.

Education

Brainware University

Computer Science and Engineering (Specialization: AI & ML)

8.7 GPA (Current)

July 2022 - Present

Bachelor of Technology (B.Tech)

St Stephen's School Dum Dum

72.25%

Higher Secondary (Class 12 – Science Stream)

2022

St Stephen's School Habra

77.8%

Secondary Education (Class 10)

2020

Projects

ML Model Evaluation Dashboard

A modular machine learning evaluation tool with an interactive Streamlit frontend.

A Streamlit tool for no-code ML model testing. Supports CSV upload, target selection, model comparison, PCA, and feature selection for quick visual evaluation.

Machine Learning, Streamlit, Model Evaluation, PCA, Feature Selection, Logistic Regression, Scikit-learn, Pandas, Matplotlib, Dashboard, Data Analysis

Few-Shot Classifier Web UI

Built a Streamlit app to solve the problem of testing few-shot classifiers without code. Enabled fast upload, prediction, and model export for support-query image tasks.

Deployed a modular web app that simplifies few-shot evaluation by wrapping backend logic into an accessible interface. Integrated dynamic upload, real-time prediction, and model export.

few-shot learning, Streamlit, image classification, computer vision, UI, deployment, PyTorch, web app

few\_shot\_lib (Python Library at PyPI)

Created a library to streamline few-shot learning workflows by abstracting support-query handling, classification logic, and model export.

Enabled reproducible and reusable few-shot pipelines by abstracting common components into clean APIs. Used in multiple downstream tools including the Few-Shot Web UI.

few-shot learning, library design, image processing, modular code, PyTorch, software engineering, ML infrastructure, PyPI

CropCure: Plant Disease Classifier

Lightweight leaf-image disease detector

Transfer-learned MobileNetV2 on PlantVillage; 97 % top-1 accuracy; quantized model served via Flask on Raspberry Pi for offline use

Computer Vision, MobileNetV2, Transfer Learning, Quantization, Flask, Edge AI, Agriculture, PyTorch

Jan 2025 – Feb 2025

Skills

Python

Core language for ML/DL projects.

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NumPy, Pandas, Scikit-learn, PyTorch, Matplotlib

Machine Learning

Built models for regression, classification & clustering

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Random Forest, SVM, Logistic Regression, KMeans

Deep Learning

Used CNNs for image-based tasks

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PyTorch, CNN, MLP, Dropout, FC

Data Processing

Cleaned, scaled, and reduced features

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PCA, StandardScaler, Encoding

SQL & MySQL

Queried and linked structured data

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Joins, Filtering, MySQL

Git

Version control for ML projects

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GitHub, Branching, Commits

Web Deployment (Basic)

Deployed models using Flask/Streamlit

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Flask, API, Gradio

C++

Used in academic OOP and logic tasks

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OOP, Loops, Arrays, Vectors

Interests

Deep Learning

CNN, Transfer Learning, PyTorch, Image Tasks, Model Optimization

Computer Vision

Object Detection, Image Classification, Edge AI, MobileNetV2, ResNets, DenseNets

Research & Innovation

Few-Shot Learning, MAML, Meta-Learning, Vision Papers

AI for Real-World Impact

AgriTech, FinTech, Healthcare, ML Pipelines, Automation

Languages

English

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Bengali

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Hindi

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