

JOYDIP DAS

Engineer ~ Student

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BlogPost

/in/Joydip Das

SUMMARY

B.Tech Computer Science student Working in Python, Django and Pytorch. Dedicated to innovation and eager to collaborate for impactful solutions.

SKILLS

Languages and Libraries: Python, NumPy, Matplotlib, Pandas, Scikit-learn, PyTorch.

Development and Database: Django, Django REST Framework, Streamlit, MySQL, PostgreSQL.

Tools and Systems: PyCharm, Jupyter Notebook, Colab, Git, GitHub, Bash, Linux.

PROJECTS

- FlowerResNet Image Classifier** [github.com link](#)
Built a custom PyTorch ResNet model for accurate classification of 299 flower varieties. Achieved 87.84 percentage training accuracy and 75.30 percentage validation accuracy and Deployed a user-friendly Streamlit app for interactive model use.
- Plant Diseases Classifier** [github.com link](#)
Developed a PyTorch ResNet model to effectively classify plant diseases and Processed a large dataset of 70,295 RGB images of healthy and diseased crop leaves. Achieved high accuracy in disease identification.
- Transformer-Based Approach for Depression Classification**
Employed BERT transformers to classify 5 distinct depression classes and Achieved 94.59 percentage training accuracy and 85.99 percentage validation accuracy. Demonstrated the model's potential for mental health assessment.
- PandasChoice Django RestAPI (E-commerce)**
Designed and implemented a RESTful API using Django REST Framework. Powered a fully functional e-commerce platform specializing in bamboo crafts and bonsai products and Enabled efficient product catalog management, user registration, shopping cart, and order processing.
- Accident-Detection-yolov8-streamlit** [github.com link](#)
This project utilizes YOLOv8 (You Only Look Once) object detection model combined with Streamlit to perform real-time accident detection in videos. The application provides a user-friendly interface to upload videos, detect objects, and visualize the detection results.

ACHIVMENTS

COMSYS Hackathon 2023

IIT Mandi

- Ranked among the top 5 teams at the COMSYS Hackathon 2023 hosted by IIT Mandi and COMSYS Educational Trust (October 2023).
NLP / Regration / Timeserise

COMSYS Hackathon-II

Mizoram University and NIT Mizoram

- Top Competitor and Winner Team: COMSYS Hackathon-II (Mizoram University and NIT Mizoram, partnered with COMSYS Educational Trust) - Secured 1st position in December 2023.
Feature Extraction / Audio Classification Challenge

DATA DRIVEN ASTRONOMY

Cochin University of Science and Technology

- Positron Foundation CITITC, Cochin University of Science and Technology
Python / Astroquery / fastAI

EDUCATION

Bachelor of Technology (B.Tech) in Computer Science and Engineering

University

ICFAI University, Tripura

Schooling

School

Kendriya Vidyalaya Agartala No. 1, Kunjaban