

Pradyumna Digraskar

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EDUCATION

CSMSS CSCOE

B-TECH IN ARTIFICIAL INTELLIGENCE
AND DATA SCIENCE
Sep 2022 - July 2025
CGPA: 8.00 / 10.0

COURSEWORK

Deep Learning
Machine Learning
Artificial Intelligence
Data Science
Natural Language Processing
Computer vision
Generative AI
Probability and Statistics

LINKS

Github://pradyumnadigraskar
LinkedIn://pradyumnadigraskar
Kaggle://pradyumna2710

SKILLS

Programming languages:

- Python • SQL • HTML • CSS
- JavaScript • AWS

Databases:

- MongoDB • MySQL • SQLite
- Pinecone

Data Science tools:

- Tensorflow • Pytorch • Transformers
- scikit-learn • Pandas • NLTK • OpenCv
- Langchain • LamaIndex • Numpy
- Power-BI • Tabaleu • Tkinter

Tools :

- Git • GitHub • Linux • Docker
- AWS • GitLab • Flask

CERTIFICATIONS

Machine Learning
Python Programming
NPTEL Deep Learning
Natural Language Processing
Reinforcement Learning Foundations

EXPERIENCE

Tech-Advance Global Solutions | Machine Learning Engineer Intern
Oct 2024 - Apr 2025

- Developed the 5ST-Vision Inspection System capable of categorizing components as "OK" or "Not OK".
- Trained the model using the YOLOv8-segmentation framework and fine-tuned it with a custom dataset for improved accuracy.
- Optimized overall code execution time by applying the quantization technique, significantly reducing model inference time.
- Labeled the dataset using the open-source tool Label-Studio.
- Utilized various detection algorithms to accurately train the model for precise component localization.
- Developed a desktop application GUI using the Tkinter library and successfully deployed the system across the entire shop Floor.

Artistic Codes | Data Engineer Intern

Jan 2024 - Jul 2024

- Gained experience in performing Exploratory Data Analysis (EDA) and preprocessing on large datasets.
- Learned to develop end-to-end applications.
- Explored how to manage the task with the cross functional team and how to communicate effectively.

PROJECTS

Indian Sign Language to Text/Speech translation

- Designed a web application through which the Deaf/mute and normal person can communicate effectively.
- Used MediaPipe for tracking the key points on hands in real time detection of hand-gestures.
- Used Text-To-Speech model for converting text into speech in real time.
- Used Google Speech-to-text model for converting regional languages into English language.
- Used Alphabet Sign language dataset and trained the model using Random Forest algorithm.
- Trained the model on 35 classes and Achieved 85 percentage accuracy on Sign alphabet image dataset.

Generative AI Q/A Evaluation Chatbot

- Developed a web application to accurately evaluate the question and answers regarding to particular topic.
- Used a LLM model called ollma and used its 2-Billion Parameter Model.
- Utilized the concepts of Gen AI and LLM to precisely extract the answers for evaluation.
- This model is very efficient in assuming and evaluating answers taken from users.
- It is also able to precisely suggest the appropriate approach and help the users to estimate the answers more easily and accurately.

ACHIEVEMENTS

- Solved 150+ problems on Leetcode using Python Language
- 5 star on HackerRank and solved SQL and Python Questions
- Gained Multiple Certificates related to Machine learning and DL