

Rohan Zade

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PROJECTS

Behaviour Analysis of livestock in barn-under progress

Scrapped images of cows from google images and various APIs then trained deep-learning model for tracking activities of cows like standing, seating, eating time and distance moved. This is a more economical substitute to the previously used implant methodology to track cow's activities.

Tech. stack: YOLOv8 Ultralytics state of the art model, Deepsort tracking algorithm, CV2

Information Retrieval from PDF document

Built an application facilitating user input in PDF format for query-based retrieval. The system employs document segmentation techniques to partition PDF content into sections, utilizing a vector database to extract the most contextually relevant documents. Subsequently, a Large Language Model (LLM) is utilized to derive precise answers to user queries from these identified documents.

Tech. stack: PDF parser (PyPDF2), Vector Database (Chromadb), LLM(Flan-t5-base), Dash framework (which is built on HTML, CSS, JS, React, and Flask)

Youtube Comment Sentiment Analysis

Built an application that accepts a YouTube video link from users. The application will retrieve comments associated with the video and conduct sentiment analysis on each comment. It will then present the collective sentiment analysis results in a pie chart, categorizing comments into positive, neutral, and negative sentiments to provide an overall sentiment overview of the video's comments section.

Tech. stack: Youtube API, Requests library, transformers, Dash framework (which is built on HTML, CSS, JS, React, and Flask)

SKILLS

Languages: Python, HTML, CSS

Framework and Libraries: Pandas, Numpy, Matplotlib, Sklearn, Scipy, Statsmodel, Tensorflow, ML Algorithms, Deep-learning Algorithms, Ultralytics(YOLOv8), Transformers, Hugging Face, Langchain, BeautifulSoup(BS4), Selenium, Flask, Dash, AI, ML

Data Analytics: MS-Excel, PowerBI, Tableau

Databases: MySQL, Vector databases: Chromadb, Pinecone

Others: GIT, VS code, Jupyter notebook

EDUCATION AND CERTIFICATION

2023 Advance Certification in Data Science and Artificial Intelligence.-

IIT Madras and Intellipaat

2015 B.Tech.- **National Institute of Technology, Kurukshetra**

(GPA: 8.34)

2011 Class 12th- Board of Intermediate Education, Andhra Pradesh

(96.40%)

2009 Class 10th- Maharashtra State Board

(92.15%)

ACHIEVEMENTS

Secured **All India Rank of 37 (99.97 Percentile)** in GATE 2016 out of 1,25,859 candidates.

WORK EXPERIENCE

Data Science Intern-Intellipaat

Apr 2023 - Dec 2023

- Data preprocessing, EDA, Feature engineering, Descriptive and Inferential analysis, Model selection, Model training, Hyperparameter tuning, Model evaluation, Model Deployment
- **Tech. stack:** Python, Pandas, Numpy, Matplotlib, Seaborn, Plotly, Sklearn, Statsmodels, Scipy, Tensorflow, Keras, Pytorch, Computer vision(CV2), YOLO v8, Transformers, Langchain, AI, ML, MLOps

Software Engineer-Innefu labs

Feb 2023 - Apr 2023

- I was given the task to scrape articles based on a given keyword from a news article website from Russia and also scrape the profile data from the given profile URL. I used the requests library to get the HTML content from the URL and parse that content using bs4 and selenium then put it in predefined JSON format and pass it to the pipeline. The result was an overall sentiment of all articles based on keyword given.
- **Tech. stack:** Requests, BeautifulSoup(BS4), Selenium, MySQL, RestAPIs

Python Developer-P2F semi

Sep 2022 - Nov 2022

- There were 6 output files formed during manufacturing of a semiconductor chip and my task was to extract data from various output files using Pandas and file handling feature of python and make it representable. I used graphing library (networkx library) to prepare graph of how each component is linked to other components.
- **Tech. stack:** Python, Pandas, MySQL, PowerBI

Engineering Officer-Indian Oil Corporation limited

Sep 2016 - Oct 2017

- Preparing dashboards, Estimate preparation, Work order preparation from concept note Project monitoring Handled projects from different fields like Electrical, Mechanical, Civil, Automation
- **Tech. stack:**Power BI, MS-Excel, SAP