ATHRVA BHAWSAR

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ACADMICS

M-Tech in Data Science and AI (Integrated)   **Oct,2022-Jun,2027**
School of Data Science & Forecasting DAVV, Indore   Grade(CGPA)-7/10

High School   **2021-2022**
Oxford International Higher Secondary School   Percentage-77%(12th)
11th-12th class

SKILLS

Languages: Python [MPLib, Pandas, Numpy], C, C++, SQL

Coursework

• Machine Learning	• Neural Networks	• Computer Vision
• Natural Language Processing	• Generative AI	• Data Structure and Algorithms
• Operating System	• Big Data Technologies	• Artificial Intelligence

PROJECTS

Image Classification System | *Python, Computer Vision, TensorFlow, Google Colab*   **Link**

- Computer Vision Problem used to identify cat and dog image
- Leveraged **VGG16 pre-trained model** with TensorFlow Keras to train and validate the model on 50% of the dataset, achieving high accuracy.
- Performed Feature engineering, Feature Selection and apply various Machine Learning models and ANN
- Deployed the solution using **Flask Framework**, providing a seamless user interface for real-time image classification.

Object Tracking | *Python, Deep Learning, Computer Vision, Yolo, Google Colab*   **Link**

- Developed an object detection and real-time tracking system leveraging **YOLOv5**, using video datasets from diverse environments, preprocessing them into frames and pixels for training and testing.
- Implemented **Fast R-CNN** with bounding boxes for precise object localization, enabling robust and **vector-based** real-time object tracking.
- Integrated **activation function (tanh) and OCR** to optimize model performance and accuracy.

ETL Pipeline for Whether Forecast Data | *Python, Docker, Flask, Airflow, API's, Pyspark*   **Link**

- **Developed an ETL pipeline** for weather forecasting data using **Apache Airflow**, leveraging **Directed Acyclic Graphs (DAGs)** for efficient task scheduling and orchestration.
- **Integrated APIs** such as PostgreSQL and OpenAI, utilizing **HTTP hooks** to connect and automate data extraction, transformation, and loading processes.
- Built a user-friendly **Flask-based web interface** to deploy the pipeline.

CERTIFICATIONS

- ***Data Science Masters (PWSkills)-*** Gained comprehensive knowledge in Python, statistics, databases, Flask API, data scraping, machine learning, neural networks, deep learning, natural language processing (NLP), computer vision, and Big Data technologies.
- ***Python Certification (Universal Informatics)***