MAYANK AMBALAL JAIN

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ABOUT ME

- I am a graduate student with academic experience in intelligent systems, and a persistent learner, trying to hone my skills to develop the appropriate solutions.

EDUCATION EXPERIENCE

Undergraduate Fellowship
Athens Information Technology

📅 June 2018 – August 2018   ♦ Greece

- Gained exposure to the field of computer vision by working with Resnet-34, YOLO v3, Dlib, Keras, TensorFlow, Anaconda, and other needed libraries.
- Acquired knowledge of accuracy and writing some functions from scratch and implemented that on image resize function.

Face Recognition | Object Recognition | Tensorflow | Keras
Dlib | Python

PROJECTS

Car Make-Model Classifier
📅 Feb 2020 – May 2020

- A neural network pipeline of two different models for detail vehicle classification/ identification
- Implemented a neural network pipeline of two different models for vehicle classification, counting, and car model analysis with YOLOv3 and VGG16
- Applied transfer learning on VGG16 and trained YOLO v3 with the classes of the vehicle from scratch on MS COCO.
- Acquired 96% accuracy with 100 epochs.

YOLO v3 and VGG16 | Transfer Learning | Tensorflow
Image Processing | Python

Cuisine Classifier
📅 October2019 – Nov. 2019

- Implemented, "Multinominal Naive Bayes Algorithm" based, cuisine classifier classifies from 20 different cuisine types based on the entered food recipes or ingredients.
- Developed and implemented TF-IDF and Cosine Similarity concepts from scratch.Executed various NLTK methods like stemming, lemmatization, stop-word removal, and tokenizing for data preprocessing.

Multinomial Naive Bayes | NLTK | Django | Pandas | Python

Food Recipe Search
📅 September 2019 – October2019

- A food recipe search interface based on your current ingredients available with the user.
- Developed and implemented TF-IDF and Cosine Similarity concepts from scratch.Executed various NLTK methods like stemming, lemmatization, stop-word removal, and tokenizing for data preprocessing.

NLTK | TF-IDF and Cosine Similarity | Django | Pandas | Python

EDUCATION

Masters, Computer Science
University Of Texas at Arlington

📅 Aug. 2019 – Present ♦ USA

🎓 GPA: 3.67 / 4.0

Bachelor of Engineering, Computer Engineering
University Of Mumbai

📅 Aug.2014-May 2018 ♦ India

SKILLS

Languages
- Python, Django.

Frameworks
- PyTorch, Tensorflow, OpenCV, NumPy, Matplotlib, Keras, Panda.

Platform
- Anaconda, Jupyter, Spider, Google Colab, Google Cloud Platform.

COURSEWORK

Data Analysis and Modelling Techniques
Machine Learning | Neural Network
Data Mining | Algorithms
Artificial Intelligence

CERTIFICATION

Computer Vision Basics
Deep Learning Specialization
Machine Learning

INTERPERSONAL SKILLS

- Self-Motivation • Handling Pressure
- Leadership • Detail Oriented
- Problem Solving • Collaboration
- Resilience