

VISHNU MANOHAR

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EDUCATION

MSc Data Science and Artificial Intelligence, Queen Mary University of London 2021-2022

- **Project:** *Image Caption Generation using Computer Vision and Natural Language Processing.*
The project is to build a model that generates sentences or captions when pictures are given as input. CNN architectures, RNN or LSTMs are used for image feature extraction and caption generation.
- **Relevant modules:** Machine Learning, Statistics, Programming for Data Science and AI, Data Mining, Deep Learning and Neural Networks, Risk and Decision Making, Information Retrieval.

BE Mechanical Engineering, Anna University, Chennai, India 2016-2020

- CGPA 7.5/10.0
- **Relevant modules:** C Language, Python, Calculus

PROJECT EXPERIENCE

Designed and developed a machine learning model for classifying Music.

- The dataset consists of 115+ recordings of hums and whistles.
- The relevant features are extracted from the audio signals.
- The ML models were compared, trained, and tested over 6 songs to predict the correct labels.

Facial Emotion Detection using Deep Learning and Computer Vision.

- The real time facial emotion detection of humans, the feature is extracted using CNN ResNet.
- The image classification model is trained using convolution neural networks CNN and uses OpenCV for the predictions.

Sentiment Analysis

- The NLTK is used for pre-processing the text data.
- The classification model is built using RNN and 3 different sentiments are predicted.

Design and Development of Semantic Search Engine (Group project)

- Designed and implemented a search engine that can provide the relevant result to the user and more accurate information based on user feedback.

K-Means Clustering Algorithm using Python

- The K-Means algorithm is built from scratch using python.
- The Iris dataset was used to test the algorithm to correctly cluster and classify the different classes of flowers.

CERTIFICATIONS

Python and Data Exploration (National Institute of Information Technology-NIIT)	2020 - 2021
Fundamentals of Data Science (University of California, Los Angeles, UCLA)	2021 - 2022
Data Analytics and Artificial intelligence (UCLA, Imarticus)	2021 - 2022

SKILLS

Python, Data Exploration, Data Visualization, Data Mining, Statistical Modelling, Deep Learning, Machine Learning, SQL, GitHub.

Analytical and Problem solving, Team player, Creativity.

TOOLS

Pandas, NumPy, Matplotlib, Seaborn, Sklearn, Agena Risk, NLTK, Flask, TensorFlow, Keras, Pytorch.

INTERESTS

Data and Technology, Reading Books, Travel, Cooking, Light Novels

LANGUAGES

English, Malayalam, Tamil, Hindi