

DISHANT ARORA

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PROJECTS

- **ML Classification Algorithms**

Applied the various classification algorithms such as **k-Nearest Neighbour**, **Decision Tree**, **Support Vector Machine** and **Logistic Regression**, and found the best one for this specific dataset by accuracy evaluation methods such as **Jaccard index**, **F1-score** and **LogLoss**.

- **Deep Neural Network Classifier**

Built a binary classifier using deep neural networks that determines whether an image is of a cat or not with an accuracy of 80%.

- **Visual Recognition Web App**

- Performed image processing and object classification using python programming language and the Watson Recognition API.

- Worked on Haar Cascade classifiers, Tesseract OCR, colour quantization, image compression (K-means clustering) and image processing, to perform license plate recognition.

- Currently, I am creating and training a custom classifier for my computer vision web app that would be deployed on the cloud for making it accessible to anyone around the world.

- **Zoo Management Database**

Created a Zoo Database and implemented querying using **Oracle** and **PL/SQL**. Finally connected it to the frontend using **JDBC**(Java Database Connectivity).

- **Analyzed US Economic Data**

- Created a dataframe that contains the GDP data.

- Developed a dashboard to gauge the change in US GDP with changes in US unemployment rates, using the Python programming language. The project included, extensive study on the US economic data and dataframe creation on US GDP and unemployment rates datasets

- **Digit Recognition**

Developing a hand written digit recognition module which takes input from a web camera.

WORK EXPERIENCE

- SolarMobil Manipal, a student project working on solar energy powered vehicles.

- As a part of the Solar Mobil team, worked on solar sensors.

- SolarMobil has successfully completed 3 projects namely SERVe, SM-S1 and SM-S2.

EDUCATION

Manipal Institute of Technology

Manipal

Bachelors in Technology

2018 - 2022

Computer Science Engineering

Gyan Ganga International Academy

Bhopal

XII(Senior Secondary), Science

2017 - 2018

Percentage : 89.8

Delhi Public School

Bhopal

X(Secondary)

2015 - 2016

CGPA : 10/10

TECHNICAL SKILLS

Programming	C++, Java, C, Python, Oracle, BASH, HTML, CSS, JS, MATLAB, Octave
Libraries & Tools	Matplotlib, Numpy, Pandas
Experienced in	Machine Learning, Deep Learning, Computer Vision

COURSES

- Machine Learning with Python
- Neural Networks and Deep Learning
- Python for Applied Data Science
- Python for Data Science
- Getting Started with Python
- What is Data Science
- Programming Fundamentals

EXTRA-CURRICULAR

- Member of **SkewCity** (Comedy based YouTube channel)