

Ranjit Kapurkar

Associate Data Scientist

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PROFESSIONAL SUMMARY:

3 + Year experience as Associate Data Scientist with strong expertise in building Machine learning, Deep learning, and NLP models. Experience in building model that translate data point into a business in sights

KEY SKILLS:

Regression Analysis

Predictive Tool

Data Pre-processing

Pattern & Trend Identification

ML Algorithms

Complex Data issue

Visualisation

Social Media Mining

Deep Learning

Supervised & Unsupervised ML

Data Insights

Data cleaning

Microsoft Excel

SQL

Hypothesis testing

Computer Vision

Feature Engineering

Natural Language Processing

TECHNICAL EXPERTISE:

- **Programming** Python.
- **ML/DL Libraries** Sklearn, NumPy, Pandas, Seaborn, Matplotlib, NLTK, TensorFlow, Keras, etc.
- **Algorithms** Linear Regression, Logistic Regression, Clustering, SVM, KNN, Naïve Bayes Decision Tree, Random Forest, XGBoost, Neural Network, CNN, RNN, NLP
- **Database** MySQL
- **BI Tool** Power BI
- **Platforms/IDE's** Jupyter Notebook, Google Colab

PROFESSIONAL EXPERIENCE:

Associate Data Scientist

July 2018 to till date

IFS India Marcantile Pvt Ltd

Traffic Sign Classification:

- In self-driving cars the passenger can fully depend on the car for traveling. But to achieve level 5 autonomous, it is necessary for vehicles to understand and follow all traffic rules.
- In the world of Artificial Intelligence and advancement in technologies, many researchers and big companies like Tesla, Uber, Google, Mercedes-Benz, Toyota, Ford, Audi, etc are working on autonomous vehicles and self-driving cars. So, for achieving accuracy in this technology, the vehicles should be able to interpret traffic signs and make decisions accordingly.
- In this Python project, we build a deep neural network model that can classify traffic signs present in the image into different categories. With this model, we can read and understand traffic signs which are a very important task for all autonomous vehicles
- Tools used: Keras, Matplotlib, Scikit-learn, Pandas, PIL and image classification.
- Role: Explore the dataset
 - Build a CNN model
 - Train and validate the model

Test the model with test dataset

Image Caption Generator:

- Describing what's in an image is an easy task for humans but for computers, an image is just a bunch of numbers that represent the colour value of each pixel. So, this is a difficult task for computers to understand what is in the image and then generating the description in Natural language like English is another difficult task.
- Image caption generator is a task that involves computer vision and natural language processing concepts to recognize the context of an image and describe them in a natural language like English. This project uses deep learning techniques where we implement a Convolutional neural network (CNN) with Recurrent Neural Network (LSTM) to build the image caption generator.
- Tools used: TensorFlow, keras, pillow, NumPy, tqdm, jupyterlab
- Role: Formulating Data, Data Understanding, Data cleaning, Labelling, Data visualisation and Modelling Create Charts using Seaborn and Matplotlib, Feature Engineering

Automatic Essay Grading:

- **Automated essay scoring (AES)** is the use of specialized computer programs to assign grades to essays written in an educational setting. Its objective is to classify a large set of textual entities into a small number of discrete categories, corresponding to the possible grades — for example, the numbers 1 to 6. Therefore, it can be considered a problem of classification
- **Tools used:** Natural Language Processing
- **Role:** Formulating Data, Data Understanding, Data cleaning, Labelling, Data visualisation and Modelling Create Charts using Seaborn and Matplotlib, Feature Engineering

Twitter Sentiment Analysis:

- Done sentiment analysis on Prime Minister of India 'Shri Narendra Modi'.
- Used selenium, bs4 for web-scraping.

EDUCATION:

- Master of Engineering in Mechanical from Solapur University, Solapur.
- Bachelor of Engineering in Mechanical from Shivaji University Kolhapur