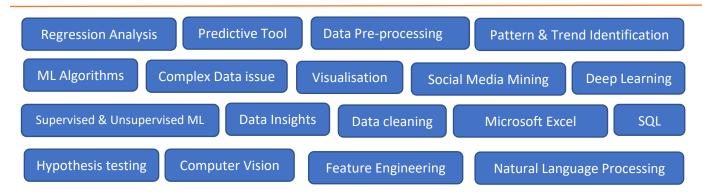
# Ranjit Kapurkar

# **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**:



#### **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 MySQLBI 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 t 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-scrapping.

#### **EDUCATION:**

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