(+91) 9423847304 | skasturiwale.kasturiwale1@gmail.com

Sarthak Kasturiwale

Machine Learning | Data Science

https://github.com/sarthak-kasturiwale | https://www.linkedin.com/in/sarthak-kasturiwale-22a6b713b/

Seeking to work in professionally competent workspace which gives me the space to grow and enhance my potential, while contributing to the organization using my knowledge and qualifications.

SUMMARY

- Data Science & Business Analytics Intern at The Sparks Foundation.
- Pursued Master's Degree in Information Technology.
- Comprehensive knowledge of Machine Learning, Deep Learning.
- Adequate knowledge of Natural Language Processing, Time Series Forecasting.
- Proficient in data preprocessing, data cleaning, deciding & implementing Machine Learning & Deep Learning models.
- Ability to analyze and obtain insights from complex data sets, communicate the findings and results of implementation.
- Strong hands on common Data Science toolkit and Python Libraries like Numpy, Pandas, Scikit-learn, Matplotlib, Seaborn, Tensorflow, Keras used for Machine Learning & Deep Learning
- Basic knowledge of data visualization using Tableau
- Excellent interpersonal communication skills, Problem solving ability, Quality conscious & multitasker

INTERNSHIP

Jan 2020 - Present

The Sparks Foundation

Role

Data Science & Business Analytics Intern

Currently working on various datasets to extract meaning from data, make visualizations, design & develop predictive models and concluding the outcomes

Responsibilities

Data Gathering, Data Cleaning, Data Visualization, Data Analysis, Predictive Modeling using Machine Learning algorithms

EDUCATION

2018-2020

Master of Engineering (Pune Institute of Computer Technology, Pune)

Pursued Master's Degree in Information Technology with 8.53 CGPA

2014-2018

Bachelor of Engineering (Sipna College of Engineering & Technology, Amravati)

Pursued Bachelor's Degree in Information Technology with 7.56 CGPA

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TECHNICAL SKILLS

Data Science :	Data Preprocessing, Data Analysis, Data Visualization, Dimensionality Reduction
Machine Learning :	Classification, Regression, Clustering, Matrix Factorization, Hyper-Parameter Tuning, Performance Metrics
Deep Learning :	Neural Networks, Classification, Regression, Performance Metrics
Natural Language Processing :	Text Preprocessing, Bag of Words, TF-IDF, Word2Vec, Sentiment Analysis
Python Libraries :	Numpy, Pandas, Scikit-learn, Matplotlib, Seaborn, Tensorflow, Keras, OpenCV, Stats
Algorithms :	KNN, Naïve Bayes, Logistic Regression, SVM, Decision Trees, Random Forest, Gradient Boosting, Linear Regression, K-Means, Hierarchical Clustering, Artifical Neural Networks, Convolutional Neural Networks, Recurrent Neural Networks, LSTMs, Transformers, BERT
Languages :	Python, SQL

PROJECT PROFILE

1. **Credit Card Approval Prediction :**

   The project aims towards building Machine Learning models to predict if the applicant is good client or bad client who would be able to pay the back. So that the bank could decide whether to issue credit card to the applicant or not

2. **Bike Sharing Demand Analysis:**

   The project aims to forecast bike rental demands to encourage bike usage in Washington DC by analyzing The Capital Bike Sharing dataset which contains the information related bike sharing program underway in Washington DC. The project leverages various regression techniques for the analysis.

3. **Quora Question Pair Similarity Identification:**

   The project aims to predict whether a pair of questions are duplicates or not based on the given Dataset by using NLP & machine learning algorithms.

4. **Osteosarcoma Detection Based on Texture Features of Histopathology Images :**

   The project aims to detect the Osteosarcoma (Bone cancer) by identifying the area affected by tumor and to classify the histopathology images into viable tumor, non-viable tumor and non-tumor using Computer Vision, Machine Learning algorithms & Convolutional Neural Networks.

5. **Analysis on Wine Quality:**

   The project aims to predict if each wine sample is a red or white wine and to predict the quality of each wine sample, which can be low, medium, or high by leveraging machine learning algorithms and data analysis on wine quality dataset.

6. **Inter-Sentence Relationship Estimation in Biomedical Texts using Natural Language Processing & Machine Learning :**

   The project aim towards identification of Inter - Sentence Relationship sets within the biomedical texts with the help of Natural Language Processing, ANN and Random Forest Classifiers.

7. **Netflix Movie Recommendation System:**

   The project aims to recommend the movies to various users by using Content & Collaborative based recommendations. Further the use of Surprise library helps in more appropriate analysis & recommendations.

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8. **Image Classification on CIFER 10 Dataset using CNN:**

   The CIFAR-10 dataset is a collection of images of 10 different classes like cars, birds, dogs, horses, ships, trucks, etc. The idea of the project is to build an image classification model that will be able to identify what class the input image belongs to.

9. **Human Activity Recognition:**

   The project aims to predict activity performed by the user by using the data collected by accelerometer and gyroscope sensors by leveraging the deep learning algorithms.

10. **Facebook Friend Recommendation Using Graph Mining:**

    Facebook has provided a snapshot of its social network. The project aims to predict the future possible links i.e given a directed social graph, have to predict missing links to recommend users based on the dataset using graph mining & machine learning algorithms.

11. **Weather Forecasting:**

    The project aims to predict the temperature when given the past data. The dataset was provided by Max Plank Institute. The project leverages the Time series forecasting concepts along with the deep learning algorithm LSTMs.

CERTIFICATIONS & AWARDS

+ Data Science Foundations (IBM)
+ Machine Learning A-Z™: Hands-On Python & R in Data Science
+ Deep Learning A-Z™: Hands-On Artificial Neural Networks
+ Time Series Analysis and Forecasting using Python
+ Tableau Consumer

PUBLICATIONS

+ Sarthak Kasturiwale, Prof. Sachin Pande, "A Through Analysis of Inter-Sentence Relationship in Biomedical Texts", *IJARESM, ISSN: 2455-6211, Volume 8, Issue 9, September 2020*.
+ Sarthak Kasturiwale, Prof. Sachin Pande, "Inter-Sentence Relationship Estimation in Biomedical Texts by using Machine Learning", *iPGCON 2020*.
+ Sarthak Kasturiwale, Prof. Sachin Pande, "Discovering Inter-Sentence Relationship in medical Texts by using Machine Learning", *Recent Trends in Communication & Electronics, ICCE-2020*.

EXTRA CURRICULAR ACTIVITIES

+ Team member in "Vidarbha Cricket Association" (VCA) tournaments representing Washim District.
+ Under Secretary General – Admin for "Vidarbha Model United Nations" (VMUN – 2017)
+ Worked as a Co-Trainer for Photoshop workshop
+ Winner in Counter-Strike 1.6 Championship held at P.R. Patil College of Engineering, Amravati-2017
+ Participated in Workshop on "Machine Learning" by Dr. Vinay Kulkarni at Sipna College of Engineering & Technology.

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INTERESTS

+ Playing Cricket & Counter-Strike
+ Travelling & Exploring new places
+ Hangouts with Family & Friends.

PERSONAL INFO

Permanent Address	:	Near Balaji Mandir, Gandhi Chowk, Karanja (Lad) – Maharashtra – 444105
Date of Birth	:	7th February 1997
Gender	:	Male
Languages Known	:	English, Marathi, Hindi