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ATHANG GHAG

Data Analyst

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Highly-motivated engineering graduate seeking a Data Analyst role in a reputable organization to leverage my statistical modelling, predictive analysis, data visualization skills for the growth of the organization as well as to improve my skills and broaden my experience.

SKILLS & INTERESTS

Programming Languages	C/C++, Python (matplotlib, pandas, numpy, scikit-learn, keras), R (ggplot2, dplyr, tidyr, caret), SQL, NoSQL
Tools and Softwares	Tableau, Excel, Hadoop, Matlab
Communication	English, Hindi, Marathi
Interests	Cycling, Sports Analytics, Cricket, Football, Reading fictional thriller novels

TECHNICAL PROJECTS

Football Analytics

June 2021 — Present

Expected Goals, Expected Pass and Expected Threat models

- Built an expected goals model with an imbalanced dataset (1 goal for 10 shots) to predict the probability of scoring a goal from an attempted shot using a calibrated XGBoost model.
- Built an expected pass model to predict the probability of completing a pass using XGBoost.
- Applied Markov chain modelling to calculate the change in chances of scoring a goal with every pass (expected threat) using dynamic programming in Python.

Speech Emotion Recognition

July 2020—May 2021

K. J. Somaiya College of Engineering

Capstone Project

- Analyzed and visualized audio features extracted from audio signals to better understand acoustic features to be employed for prediction
- Built a Convolutional Neural Network for prediction of 8 human emotions using a combination of features extracted from 5252 audio files.
- Achieved on-par accuracy with reviewed research papers using a weighted combination of 3 features namely MFCC, Mel & Chroma.

Crime Prediction and Analysis

Jan 2020—May 2020

K. J. Somaiya College of Engineering

Mini Project

- Assessed and explored patterns in the occurrence of different criminal activities.
- Trained KNN, Random Forest and Decision Tree models to predict surges and hotspots of crime and classify crime based on location.

EDUCATION

Bachelor of Technology in Electronics and Telecommunication Engineering

June 2021

K. J. Somaiya College of Engineering

Mumbai, MH

CGPI: 8.4/10.0

- Relevant Coursework: Data Analysis & Interpretation, Statistics Probability, R Programming, NoSQL, Data Structure & Algorithms, Cloud Computing, Business Analytics using Microsoft Excel, Neural Networks & Fuzzy Logic, Big Data Analytics

Higher Secondary School Certificate

June 2017

S.S. High School Junior College

Navi Mumbai, MH

Percentage: 89.3%

Secondary School Certificat

June 2015

Fr. Agnel Multipurpose School

Navi Mumbai, MH

Percentage: 95.6%

ACTIVITIES

Case Study Competition, KJ Somaiya College of Engineering

March 2021

- Accomplished a place in the top 100 teams across the country in an analytical case study challenge organized by a consulting firm

Organising Group Member, KJ Somaiya College of Engineering

Sept 2017-March 2018

- Actively participated in arranging various events for the college Technical, Sports, and Cultural Festivals and helped in promoting the events across the campus and colleges in the city in person and using social media.