Rohit Verma

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SKILLS

Python, Machine Learning, Deep Learning, Sci-kit learn, TensorFlow, Keras, OpenCV, Nltk, C++, Flask, HTML, SQL, AWS, Git.

ACADEMIC

- **Madan Mohan Malaviya University of Technology** — Gorakhpur, UP, India
  Bachelor of Technology in Computer Science and Engineering; CGPA: 7.4/10 — Jul. 2017 - May 2021(Expected)
- **Delhi Public School** — Varanasi, UP, India
  Intermediate; Aggregate: 92/100 — April 2015 - March 2017

INTERNSHIPS

- **Tessellate Imaging:** Computer Vision Intern — Jul. 2020 - Present
- **Diesel Locomotive Work:** Summer Intern — May 2019 - Jun. 2019

PROJECTS

- **Fire-Detection Using CCTV camera.**
  - The project aims to detect fire using the CCTV live video feed.
  - Collected CCTV Images with and without fire. Non-CCTV images are also added to the dataset to increase the usability of the model.
  - Used mobilenet-v2 for transfer learning. The model was used on video examples and produced impressive results.
- **House Room type Classification using Images.**
  - The project aims to detect the room type of the house using images.
  - The dataset contains images divided into seven classes namely, 'Exterior', 'bedroom', 'kitchen', 'living_room', 'Interior', 'bathroom', 'dining_room'.
  - Used different ResNet variants to understand what all differences happen when switching between ResNets variants.
- **American Sign Language Recognizer.**
  - The project aims to recognize the hand gesture of the English alphabets.
  - Each training and test case represents a label (0-25) as a one-to-one map for each alphabetic letter A-Z (and no cases for 9=J or 25=Z because of gesture motions).
  - Used a custom convolutional neural network on Keras framework. Achieved an accuracy of 100% on the test dataset.
- **Predict the Harvest.**
  - The project aims to predict the outcome of the harvest whether it would be alive, or damaged.
  - Dataset is based on crops harvested by various farmers at the end of the harvest season.
  - Used k-nearest neighbor algorithm (k-NN) for model creation and made a web application using the Flask framework, then deployed the application using Heroku.
- **Stock Sentiment Analysis using News Headlines.**
  - The project aims to predict whether the stock price will go up or down depending on the news headlines.
  - The data set in consideration is a combination of the world news and stock price shifts available on Kaggle. Data range from 2008 to 2016 and the data from 2000 to 2008 was scrapped from Yahoo finance.
  - Used TF-IDF and Bag of Words for extracting features from the headlines, then used Random Forest Classifier, Multinational Naive Bayes, and Passive-Aggressive Classifier for analysis.
- **Post-Recommender System.**
  - The project aims to recommend a post/article to the user based on his/her recent history.
  - Used content-based filtering method so that the user's personal information is not taken into account and its privacy is maintained.
- **Fake News Classifier.**
  - The project aims to classify the news as Fake or Real.
  - The dataset contains news articles from a duration of two years.
  - Used Multinational Naive Bayes and Passive-Aggressive Classifier for analysis.

POSITION OF RESPONSIBILITY

- Joint Secretary at Training and Placement Cell.
- Executive Member at Computer Engineering Society.

CERTIFICATIONS

- Deep Learning Specialization by deeplearning.ai.
- Machine Learning by Stanford University.
- Machine Learning with python by IBM.
- Python Data-Structures by the University of Michigan.

EXTRA-CURRICULAR ACTIVITIES

- Writer at Towards Artificial Intelligence.
- Writer at Towards Data Science.

BLOGS PUBLISHED

- Fire Detection using CCTV images — Monk Library Application. [Link]
- Image Classifier — House Room type Classification using the Monk Library. [Link]

INTERESTS

- Artificial Intelligence.
- Data Science.
- Computer Vision.
- Natural Language Processing.

DECLARATION

I hereby declare that the above-mentioned details are true to the best of my knowledge.