Srinath Chiranjeevi

AI Enthusiast

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Career Objective: *To build smart products and provide valuable insights from incoming data streams based on cutting-edge AI*

Education

Vellore Institute of Technology, Bhopal

July 2019 – July 2023

Bachelor of Technology in Computer Science with Specialization in Artificial Intelligence and Machine Learning

Skills

Machine Learning: Linear, ridge, lasso and elastic-net regression. Understanding of ML life-cycle (data visualization, statistical analysis, hypothesis testing, feature creation, model training and model deployment) and evaluation metrics (confusion matrix, ROC, AUC). Applied knowledge of ML and CV models and techniques: KNN, Naïve Bayes, SVM, Bagging & Boosting (ensemble), PCA, K-means++

Deep Learning: Convolution Neural Networks (ResNet, InceptionNet, VGGNet, LeNet, AlexNet), Pre-Trained Models (RCNN, Fast RCNN, Faster RCNN, SSD, Mask RCNN) Recurrent Neural Networks (RNN, GRU, LSTM, bi-LSTM), Computer Vision - Object Detection (TensorFlow Object Detection, Yolo, Detectron2) Transfer Learning, Hyperparameter tuning, cost functions and model optimizers, Object Classification and Localization

Software Packages: Python, Pytorch, Scikit-learn, Keras, OpenCV, Tensorflow, Tensorboard, Git, Pandas, Numpy, Matplotlib, PyCharm, C++, Java, Jupyter Notebook, Scipy, Flask

Soft Skills: Metacognitive Skills, Leadership Skills, Excellent Work Ethic, Willingness to Learn and Adapt

Career Summary

Deep Learning Intern - Project Lead

iNeuron.ai, Bangalore, India *Nov.2020 - Present*

- Maintained tactical control of timelines to keep teams on task and achieve schedule targets.
- Set up and managed team meetings.
- Met with manager weekly to provide detailed project report and milestone updates.

Machine Learning Intern

The Spark Foundation *Sep.2020 – Oct.2020*

- Hands-on experience with different supervised and unsupervised machine learning techniques while working on many regression and classification-based tasks.
- Transformed raw data to conform to assumptions of machine learning algorithm.
- Studied new technologies to support machine learning applications.

Machine Learning Intern

Verzeo *Dec.2019 – Feb.2020*

- Online internship program associated with IIT Bombay and Microsoft. Learnt Machine Learning concepts and mathematics behind the algorithms. Performed data analysis using python and implemented two projects - minor project and a major project. It was a great experience.

Relevant Projects

Facial Emotion Detection

Deep Learning *Jan 2021*

- I have used TensorFlow framework to train the 4 blocks of Convolutional neural network on facial emotion images, where in each block consists of Convolutional layer, Activation function as Exponential Linear Unit (elu) and 'SoftMax' for the last layer, Batch Normalization, Max Pooling layer, Dropout for preventing the neural network from overfitting the model and Optimizer as Adam Optimizer. The model was trained for 200 epochs and accuracy achieved was 70.12%. This model was converted to .h5 file in order to test the model with live feed data. I used OpenCV to capture the human face and recognize the emotion.

End-To-End Image Classification using Transfer Learning

Deploying Deep Learning Model in Cloud *Dec 2020*

- Simple web application to visualize the ImageNet image database made using Flask and deployed in Heroku App.

End-To-End Sentiment Analysis using Restaurant Reviews

Deploying NLP Model in Cloud *Dec 2020*

- I have taken restaurant reviews dataset for training the model and made a web application using Flask and deployed it in Heroku App. Achieved an accuracy of 82%.

Driver Drowsiness Detection

Deep Learning Sep 2020 - Oct 2020

- For the task of driver drowsiness detection, I used SSD MobileNet V1 (Pre-Trained) detection model and I trained it to detect human eyes open and eyes closed. Eyes open (Not_drowsy) and eyes closed(drowsy) were treated as two separate classes. The incoming video stream was taken from a camera and passed through the model and the model will predict drowsy if driver's eyes are closed and predicts Not_drowsy if his eyes are open. If the eyes of the driver are detected to be closed for 7 successive frames or for 5 seconds in the incoming video stream the proposed system would declare the driver to be drowsy, and an alarm will be generated to wake up the driver. This is done to prevent accidents at high speeds because in such situations a few seconds of carelessness can result in a fatal accident. Achieved an accuracy of 88.9%.

Face Mask Detection

Deep Learning Jun 2020

- An Object detection model using TensorFlow object detection API which detects if a person is wearing a mask or not. I have collected the dataset from Kaggle. I used pre-trained model Faster R-CNN Inception ResNet V2. Accuracy achieved was 96.7%.

Exploratory Data Analysis on Zomato Dataset

Data Analysis May 2020

- Analysing the Business Problem of Zomato to get a fair idea about the factors affecting the establishment of different types of restaurant at different places in Bengaluru.
- Regression Analysis: Linear Regression, Decision Tree Regression, Random Forest Regression.

Indian Domestic Flight Price Prediction

Statistical Analysis and Machine Learning with Deployment May 2020

- Flight ticket prices can be something hard to guess, today we might see a one price and when we check out the price of the same flight tomorrow, it will be different. We all know that that flight ticket prices are so unpredictable. So, I decided to predict the prices of flight tickets for various airlines using Machine Learning and Deployed it in Heroku WebApp using Flask. The train data accuracy was 85% and test data accuracy as 81%