Bhavin Dhedhi

B. Tech EXTC
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EXPERIENCE

Associate Data Scientist, Think Analytics, August 2018 - Present

- Working on time-series data of petroleum industry to detect various anomalies using different statistical techniques such as PCA, Hotelling T-Square, Q-Statistic.
- Created a POC for a Deep Learning based solution to the problem of uncalled No-Ball in cricket, We used YOLO - v3 to to detect foot of the bowler and an algorithm to detect the landing point of bowler's foot.
- Analysis of US pharmaceutical manufacturer's data to gain insights that can drive the sales.
- User segmentation, Pre and Post launch of new drug using clustering.
- Built R - Shiny Applications that helped major pharma companies to better contract with insurance providers. Using these applications companies could make decisions within minutes which used to take weeks and save millions of dollars with the accuracy of predictions.
- Built Credit score models with 85% accuracy which is serving 100,000 customers to get instant loan within minutes.

ACADEMIC BACKGROUND

B. Tech, Electronics & Communication Engineering. 2014 - 2018
K. J. Somaiya College of Engineering - Mumbai
8.64 GPA

HSC, 2012 - 2014
Shri T. P. Bhatia Junior College of Science - Mumbai
85.85%

SSC, 2012
Sheth N. L. High School - Mumbai
94.18 %

PROJECTS

ALPR Using Deep Learning January – May 2018

- 700 images of cars captured and annotated to make dataset.
- Trained 3 different YOLO networks. One for detecting the presence of Cars, another for detecting plate on car and lastly for detecting the presence of characters.
- Lastly, each detected character was passed on to a CNN for recognition.
- Accuracy – Car (98%), LP detection(94%), Character detection(85%)

Handwritten Digit Recognition using CNN January – March 2017

- Built two-layer CNN which was trained and tested on MNIST dataset in Python.
- Network showed accuracy of 99.2%.
- Built a system through which the weights can be saved for future use.
- Won first prize at state level competition on Machine Learning.

INTERNSHIP

Antenna Design (KJSCE) May – june 2016

- Designed wide-band microstrip patch antenna, (2 GHz to 10 GHz) using IE3D software.
- Compared different antenna designs on basis of different parameters and proposed two antenna designs with better characteristics

PUBLICATIONS

- Automatic license plate recognition using deep learning - Springer, ICIIT Chennai- Dec '18.
- Detection of birds in the wild using deep learning methods,IEEE, I2CT Mangalore - Oct '18

SKILLS

- Python, R, C++.
- Tensorflow, Pandas, OpenCV, Keras, Android.
- Tools: Jupyter Notebook, Excel, Tableau, NetBeans. MATLAB, Eclips.

ADDITIONAL COURSES

- OOPM (3rd semester)
- Web Programming (4th semester)
- Image Processing (5th semester)
- DBMS (Computer Department)

ONLINE COURSES

- Self-driving Car Nano-degree (Udacity)
- Algorithms and Data Structure in c++ (Udemy)

SIDE PROJECTS

- Advanced lane finding for self-driving cars.
- Traffic sign detection using CNN
- Behavioral cloning using Transfer learning to mimic human driving.
- Implementation of Extended Kalman filter in C++