

# Dhaval Limbachiya

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## EDUCATION

- Sardar Vallabhbhai Patel Institute of Technology** Anand, India  
*Bachelor of Engineering - Computer Engineering; GPA: 8.20* July 2016 - July 2020

## SKILLS SUMMARY

- Key Skills::** Machine Learning, Deep Learning, Data Analysis, Web Scraping, Data Visualization
- Languages:** Python, C++, JavaScript, SQL
- Frameworks/ Packages:** Scikit, NLTK, SpaCy, TensorFlow 2.0, Keras, Flask, OpenCV, PyTorch, Matplotlib, Pandas, Numpy, Seaborn, Beautiful Soup
- Tools:** Tableau, Google Colab, PyCharm, Anaconda, MySQL
- Soft Skills:** Leadership, Event Management, Public Speaking, Time Management

## EXPERIENCE

- Data@ANZ Virtual Experience** Remote  
*Data Science Intern (Full-time)* April 2020

Virtual internship experience offered by ANZ through InsideSherpa as part of their Data@ANZ program, which provides some insights into the sort of work the data science team at ANZ do. I worked on Exploratory Data Analysis for real world ANZ synthesized transaction dataset followed by Predictive Analysis using decision trees to find precious insights for proper transaction management..

## PROJECTS

- Lung Disease Diagnosis (DenseNet, Transfer Learning, GradCAM, Multi-Classification):** A Deep Learning model to diagnose 14 different types of lung disease using X-Rays. Used DenseNet and Dense layers for multiple classification problem and GradCAM for heatmap visualization of lungs. Dataset: Chest X-ray by Cornell University (March '20)
- Real Time Facial Expression Detection (CNN, Flask, OpenCV):** A state of art model deployed on web interface using Flask server used to detect seven types of facial expression. It can work efficiently on Images, Videos and Web Cameras as well. (May '20)
- Image Caption Generator (CNN, RNN, VGG, Flask Server):** A Web app which takes Image as an input and generates image description. Used Pre-trained VGG for extracting image features and LSTM as a sequence processor to generate image description. This deep learning model was deployed on Heroku using Flask server. (January '20)
- Uber Data Analysis (Exploratory Data Analysis, Data Visualization, Predictive analysis):** A data analysis project on Uber PickUps in New York City for understanding the data to find precious insights and for developing an intuition for understanding the customers who avail the trips. (August '19)
- Text Summarization (Abstractive Summarization, Text-to-Text-Transfer-Transformer, NLP):** T5 is a new transformer model from Google that is trained in an end-to-end manner with text as input and modified text i.e. summary of passage as output. (May '20)
- SVIT AR Campus (Augmented Reality, Unity Engine, Vuforia SDK):** A Location based Augmented Reality app developed for adding a flavor for exploring our institute premises. Features like 3D Food menu, AR navigation and AR Information retrieval are used to make user experience delightful. (January '20)

## CERTIFICATIONS / MOOC

- TensorFlow in Practice Specialization From deeplearning.ai:** Worked on Convolutional Neural Networks, Recurrent Neural Networks, LSTM and Time Series Analysis (April '20)
- Bertelsmann AI Technology Scholarship recipient from Udacity :** Learned deep learning concepts in PyTorch (November '19)
- Machine Learning By Andrew Ng:** Learned Machine Learning concepts (May '19)
- 4 Star Python Coder on HackerRank:** Competitive programming using Python language (January '19)

## VOLUNTEER EXPERIENCE

- Community Resource Manager at Change Vadodara Campaign** Vadodara, India  
*NGO providing free education for children living in slum area and providing them proper guidance.* Dec '17 - May '18
- Member at Google Developers Group Vadodara and Flutter Vadodara**