SAVAN VISALPARA

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EDUCATION

The University of Texas at Dallas Richardson, TX
Master of Science in Computer Science (Intelligent Systems) *Aug 2019 – Dec 2021 (expected)*
· Coursework: Machine Learning, Artificial Intelligence, Natural Language Processing, Data Structure and Algorithms, Database Design

Gujarat Technological University Ahmedabad, India
Bachelor of Engineering in Computer Engineering *Aug 2014 - June 2018*
· Awarded "**Dewang Mehta IT Award**" and "**Academic Excellence Award**".
· Founding member of BitFrames Club which arranges CS events and workshops.

WORK EXPERIENCE

- **Onepanel Inc.** San Francisco, CA
  Machine Learning Engineer Intern *June 2020 - Present*
  · Working on deep learning models to detect damage caused by rhinoceros beetles on coconut trees.
  · Adding new features to existing Computer Vision Annotation Tool on Onepanel which allows users to create portable and scalable computer vision pipelines on Onepanel.
  · *[Python, Django, Docker, Kubernetes, AWS]* **view contributions**

- **Geeky Bee AI PVT LTD** Ahmedabad, India
  Software Developer (Machine Learning) *July 2018 – Aug 2019*
  · Played a key role in developing computer vision-based exercise classification and counting software.
  · Developed multiple object detection/segmentation and image-based re-localization models (SLAM).
  · Improved models' inference speed using tools like TensorRT and quantization.
  · *[PyTorch, TensorFlow, OpenCV, Flask, Django, NLTK, spaCy, AWS]*

TECHNICAL SKILLS

Programming Languages: *Python, C/C++, Java, PHP, JavaScript, SQL, Go*
Frameworks/Tools: *Git, Docker, Django, Linux, PyTorch, TensorFlow, OpenCV, Sci-kit Learn, spaCy, NLTK, MySQL, MongoDB, CUDA*

RELEVANT PROJECTS

ThirdEye: Vision for Everyone *Jan 2018 - July 2018*
Trained and deployed image captioning model on Raspberry PI which can help visually impaired people by generating narration for their surroundings. This project was awarded the best project award during the annual project fair at Alpha College of Engineering and Technology. *[Python, TensorFlow, Keras]*

Study of Methods to Solve Class-Imbalance in Computer Vision Problems *Jan 2018 - July 2018*
Implemented and studied methods such as oversampling and weighted-loss to counter class-imbalance in Deep Learning models for computer vision tasks. *[Python, PyTorch]*

Multiple Emotion Detection from COVID-19 Related Text using BERT *April 2020*
As part of the Natural Language Processing class, annotated COVID-19 related text and trained a BERT-based text classification model to identify multiple emotions from the given text. [*Python, PyTorch*]

Vocabulary Master *Nov 2015*
Developed a GUI app, chrome extension, and a web app which help users master new words easily and efficiently. Used Java and JavaFX framework to build a GUI app, used JSP and JDBC for a web app. *[Java, JSP, JavaFX]*

Udacity Self-Driving Car Nanodegree *April 2019 – June 2019*
I was awarded Udacity KPIT Autonomous Tech Scholarship for the Self-Driving Car Nanodegree Term-1, where I worked on projects such as Lane Detection, Traffic Sign Classification, Behavior Cloning. *[Python, Keras, OpenCV, C++]*