SHREYA GUPTA

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TECHNICAL SKILLS & CERTIFICATIONS

Technologies: Deep Learning, Computer Vision, Object Detection, Hyperparameter optimization

Tools: Python, C, C++, Keras, TensorFlow, OpenCV, Gitlab, MATLAB, Pandas, Sci-kit Learn, Matplotlib

WORK EXPERIENCE

Member of Technical Staff - Machine Learning, Syntiant Corp., Irvine   *08/2019-Present*

- Created the entire production pipeline for person detection involving data ingestion, augmentations, training, quantizations, execution on production silicon and customer facing demonstrations, using deep learning.
- Developed key benchmarks False Acceptance Rate and False Rejection Rate for meeting quality expectations.
- Collaborated with the Field Applications Engineering team to deliver silicon performance specifications to unique customer requirements.
- Ported a new interface of using Keras APIs like masking layers and cross functionality on the constrained product silicon.
- Experienced in developing network architecture layers like convolutional, depth-wise convolutional, pooling layers etc with hardware specific constraints like clock speed, data bank memory consumption.
- Reduced power and memory consumption by using Cached networks to perform inferences.
- Created automated data ingestion pipelines for different data vendors that increased data processing speed by 60%.
- Delivered on boarding training to intercontinental teams for machine learning projects.

Machine Learning Engineering Intern, Pexeso Inc., Los Angeles   *01/2019-05/2019*

- Responsible for the Language Identification project in detecting spoken language in any audio file.
- Conducted research and set initial speed benchmarks for the project.

Research Intern, **Indian Institute of Technology Delhi (IIT), IGDTUW, Delhi, India**   *2015 – 2017*

- Integrated hardware and programmed sensors onto a robot for collision detection with path rerouting using computer vision algorithms using proprietary Intel binaries.
- Conducted research on Image Quality Assessment systems for better detection.

EDUCATION

University of Southern California, Los Angeles, CA   *05/2019*

Masters in Electrical Engineering

Indira Gandhi Delhi Technical University for Women (IGDTUW), Delhi, India   *05/2017*

Bachelors in Electronics and Communication Engineering

ACADEMIC PROJECTS

- *Image Manipulation Backend Software Development:* Developed core image processing utilities for edge detection, texture segmentation, denoising, histogram modification using C/C++ without use of external libraries.
- *Photo Effect Filters:* Developed robust real time face detection in live camera feed or pre-recorded videos to apply photo effect filters like snapchat using haar cascades from openCV.
- *Bank Subscriber Identification:* Identify the possibility for a potential subscriber to your bank with an accuracy of more than 90%. This work is based on the highly imbalanced Bank Marketing dataset from UCI.