AALISHA DALAL

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Education

University of California, Los Angeles
Master of Science in Computer Science; *GPA: 3.88* Sep *2018 - June 2020*
Relevant Coursework: Computer Vision (F. Scalzo & A.Kadambi), Pattern Recognition(S. Zhu), Machine Learning(Q. Gu), Deep Learning, (J.Kao), Convex Optimization (L.Vandenberghe), Natural Language Processing & Web Information Systems (J. Cho)

Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), India
B.Tech in ICT with Hons. in Computational Science*; GPA: 3.75* *2014 - 2018*
Relevant Coursework: Neural networks, High Performance Computing, Data Structures, Object Oriented Programming

Technical Skills

Languages: Java, Python, C, C#, MATLAB
Platform/Framework: Pytorch, TensorFlow, CUDA, AWS, Spark
Web technologies: HTML, CSS, REST API
Data Stores: ElasticSearch, SQL, Hadoop

Experience

Google Inc., *Software Engineer* Mountain View, CA; October 2021 -

• Implemented monitoring and alerts for data anomalies in ML Tensorflow pipelines for Play Store Apps.

Adobe Inc., *Machine Learning Engineer* San Jose, CA; *July 2020 - Aug 2021*
- Worked on deploying ML-based ranker using AI engine for style-based recommendations of user photos.
- Created data pipelines using Hadoop, AWS, and Spark to analyse billions of user assets for training ML models.
- Carried out user-behavioral studies for search and recommendation use cases for Creative Cloud (CC) Products.
- Organised ML Reading Group and received "Most Likely to Be Neural Filter" Award in org-wide hackathon.

Machine Learning Applied Search Intern *June 2019 - Sep 2019*
- Generated personalised search keyword recommendation queries based on user photos in Adobe Lightroom.
- Automated categorisation of user photos in albums using an unsupervised embedded topic modelling approach.

Infocusp Innovation Pvt. Ltd., *Machine Learning Intern* Ahmedabad, India; *Jan - May 2019*
- Worked on data analysis cycle for financial modelling of stock market feed to create profitable stock market strategies. Carried out statistical wiki-data analysis to see if there are event indicators that reflect change in stock prices.

University of California Los Angeles (*Graduate Student Researcher)* *Sep 2019 - June 2020*
- *Computational Machine Learning Lab*: Created a framework to generate adversarial examples that can fool any kind of object detection models using black-box query limited Sign-OPT attack under the guidance of Prof. Hsieh.
- *UCLA Vision Lab*: Created models inspired from Siamese Network with deep cross correlation and attentional features for video instance segmentation under the guidance of PhD student Xinzhu Bei and Prof. Stefano Soatto

University of California Los Angeles (*Graduate Teaching Assistant)* *Jan 2019 - Mar 2020*
- Conducted discussions to review lectures and labs to teach practice problems, held office hours for solving queries.
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Selected Projects

- ***Automated Colorisation of Grayscale Images*:** Implemented a CNN encoder-decoder architecture and GAN model having U-Net as the generator and CNN as the discriminator for colorisation of grayscale images.
- ***Human Face detection using Boosting*:** Implemented Viola Jones' Adaboost and RealBoost method for face detection. Used non-maximum suppression and hard negative mining to reduce false-positive detections.
- ***Image Analysis of Human Faces and Gender-based Classification:*** Implemented PCA and auto-encoder CNN model on human faces and used them to reconstruct human faces with appearance and geometry variations.
- ***Neural-based System for Question-Answering on SQUAD 2.0:*** Worked on a Bidirectional Attention flow model using word embeddings - GloVe, Fast-text and BERT for predicting answers to questions from paragraphs.
- ***Hashtag Recommendation for Twitter tweets*:** Developed a model for recommending hashtags for user tweets. It is trained on the real-time Twitter feed and is built using word2vec embeddings and clustering approaches.
- ***Parkinson's disease prediction:*** Implemented MLP and RBF neural network models with meta-cognitive component for predicting Parkinson's disease among patients based on their vocal and gait features.