

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 Info 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++, C#, MATLAB

Web technologies: HTML, CSS, REST API

Platform/Framework: Pytorch, TensorFlow, CUDA, AWS, Spark

Data Stores: ElasticSearch, SQL, Hadoop

Experience

Google Inc., Software Engineer

Mountain View, CA; Oct 2021 -

- Working on end-to-end implementation for the stalkerware/ monitoring policy based enforcements in Play Store.
- Launched automated enforcement for data safety/privacy policy based on SDK and other code signals.
- Implemented monitoring and alerts for data anomalies in ML Tensorflow pipelines for Play Store Apps.
- Worked on system design and implementation for Play Developers features integration and policy workflows.

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

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.
- **Analysis and Detection of Human Faces**: Implemented Viola Jones' Adaboost and RealBoost method for face detection based on non-maximum suppression and hard negative mining to reduce false-positive detections. For face analysis used PCA and auto-encoder CNN model on human faces and used them to reconstruct human faces with geometric 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.