Aalisha Dalal

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Education

- **University of California, Los Angeles** — Los Angeles, CA
  Master of Science in Computer Science; GPA: 3.87/4 — *Expected Mar. 2020*
  Relevant Coursework: Pattern Recognition and Machine Learning, ML Algorithms, Deep Learning and NN, Web Information Systems, Convex Optimization, Digital Image Processing, Natural Language Processing (equivalent)

- **Dhirubhai Ambani Institute of Information and Communication Technology(DA-IICT)** — India
  B.Tech in ICT with Hons. in Computational Science; GPA: 3.75 (9.28/10.0) — *2014 – 2018*
  Relevant Coursework: Topics in Neural Networks, High Performance Computing, Computational Optimization, Complex Networks, Data Structures, Object-oriented Programming

Programming Skills

- Java, Python, C, TensorFlow, C#, HTML, JavaScript, JQuery, PHP, MATLAB, SQL, IBM Db2, REST API

Experience

- **Adobe Inc.** — San Jose, California
  Machine Learning Applied Search Intern — *June 2019 - Sep 2019*
  - **Keyword Recommendation**: Worked on generating personalized search keywords for users based on certain features such as location, image tags and dates to enhance user search experience.
  - **Automated Photos Categorization**: Worked on an unsupervised approach of generating user photos albums by applying embedded topic modeling approach on image metadata.

- **Infocusp Innovations Pvt. Ltd.** — Ahmedabad, India
  Machine Learning Intern — *Jan - May 2018*
  - **Stock market feed**: Worked on the entire data analysis cycle from pre-processing to modelling financial data stream of minute-wise stock market feed for creating profitable stock market strategy.
  - **Wiki Data Analysis**: Carried out wiki-statistics analysis based on wiki edit-history and wiki-pageview data of listed companies and validated if they have event indicators which reflect change in stock prices.

- **Morgan Stanley Advantage Services Pvt. Ltd.** — Mumbai, India
  Technology Analyst Intern — *May - July 2017*
  - **Health-check application**: Developed a multi-threaded continuous health-check application using the Java-Spring framework to monitor various functionalities of different trading products.
  - **Visualization dashboard**: Created dashboard for targeting failure events of these functionalities in real time which significantly reduced the man-hours spent in manual and post-turnover testing.

- **IQR Consulting Inc. (now a part of EXL Analytics)** — Ahmedabad, India
  Data Analyst Intern — *May - July 2016*
  - **Risk Model**: Developed a MLP neural network risk model in Python for predicting credit union customers likely to go delinquent in the current cycle based on their historical track records after carrying out an extensive statistical procedure for feature reduction.

Projects

- **Automated Colorization of Grayscale Images**: Developed CNN encoder-decoder architecture and GAN model which uses U-Net as the generator and CNN as the discriminator for colorization of grayscale images.
- **Human Face detection using Boosting**: Implemented Viola Jones'Adaboost and RealBoost method for face detection. Used non-maximum supression and hard negative mining to reduce false positive detections.
- **Image Analysis of Human Faces and Gender-based Classification**: Implemented dimensionality reduction techniques: PCA and auto-encoder CNN model on human faces and used them to reconstruct human faces with appearance and geometry variations. Carried out gender-based classification with Fisher faces using FLD technique.
- **Neural-based System for Question-Answering on SQUAD 2.0**: Worked on a Bidirectional Attention flow model using word embeddings models such as GloVe, Fasttext and BERT for predicting answers to questions from paragraphs.
- **Deep learning based prediction of Parkinsons disease**: Implemented MLP and RBF neural network models with meta-cognitive component for predicting Parkinsons disease among patients based on their vocal and gait features.