Jiaxin Li

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Education

The University of Texas at Austin Aug 2018 - May 2020
- Master of Science in Information Studies | GPA: 3.8/4.0
- Focus: Data Science and Data Analysis

Beijing University of Posts and Telecommunications Sep 2014 - Jul 2018
- Bachelor of Engineering in Electronic Engineering | GPA: 87/100
- Specialty: Opto-Electronics Information Science and Engineering

Internship Experience

Nokia of America Corporation | Austin, Texas | Data Scientist Co-Op Sep 2019 - Dec 2019

Designed a customized recommendation engine to offer users services through push/pull notifications in app.
- Researched through the catalogs of products and bundles from world-wide Tier 1 operators and MVNOs.
- Simulated fake data (users, products, interactions) based on open source UCI insurance company dataset.
- Applied matrix factorization to impute missing values in user-service matrix and generate offer lists.

Selected Projects

Electronic Medical Records System Jan 2020
- Designed the framework and interface with Figma, enabling users to lookup lab events, diagnosis results.
- Developed the app with Flutter and Firebase, linked the frontend and backend with json_serializable.
- Built a diagnosis suggestion engine for patients or symptoms based on MIMIC-III Clinical Database.

Yet Another Shell Sep 2019
- Built a shell in Linux which takes commands from user input and executes them by creating processes.
- Commands: user programs(ls, cat), file redirection(>, <), pipe(|), signals(Ctrl-c/z), job control(fg, bg, &).

Predicted Commercial Value of Movies May 2019
- Pre-processing: drop missing values, feature subset selection, one-hot encoding for text analysis.
- Applied best subset selection, utilized random forest regression to predict box office revenue.
- Implemented logistic regression with L1 penalty to predict IMDB ratings of movies into three levels.

Facial Images Makeup Detection Apr 2019
- Implemented a Naive Bayes classifier with PCA dimension reduction to classify facial images.
- Extracted HoG, Canny, Haar features and concatenated them together to describe shape, texture and color.

Research on How Online Ads Impact Students' Consumer behaviors Nov 2018
- Utilized independent sample T test to find if there is impact difference on students of different genders.
- Applied Spearman's rho correlation to tell whether age is related to students' attitudes towards online ads.

Research Experience

National Laboratory of Pattern Recognition | Beijing, China | Computer Vision RA Jun 2017 - Dec 2017

Study insect images in PyTorch deep learning platform: classification, metic learning, semantic segmentation.
- Pre-processing: data augmentation, mini-batch/image pairs generation, LabelMe bounding box annotation.
- Adapted pre-trained Alexnet with new output linear layer, calculated cross entropy loss to classify images.
- Classified image pairs as similar or dissimilar based on Euclidean distance and smoothed hinge loss.
- Built a fully convolutional network to segment images, compared the accuracy results of FCN-8S, 16S, 32S.

Skills

- Computer Languages: Expert: Python, C, Java. Intermediate: R, SQL, C++, Html, Shell.
- Software Tools: Virtual Box, Xcode, Android Studio, Sketch, Figma, Jupyter, Emacs.
- Other Tools: Github, Microsoft Azure, Microsoft Office, LaTeX, Photoshop, Procreate.