

Supriya Vijay

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EDUCATION

CARNEGIE MELLON UNIVERSITY M.S IN INTELLIGENT INFORMATION SYSTEMS

Dec 2016 | Pittsburgh, PA
GPA: 3.59/4

PES INSTITUTE OF TECHNOLOGY B.E IN COMPUTER SCIENCE AND ENGINEERING

May 2015 | Bangalore, India
GPA: 9.49/10

COURSEWORK

GRADUATE

Machine Learning
Machine Learning for Text Mining
Search Engines(TA)
Natural Language Processing
Multimedia Databases and Data Mining
Language and Statistics
Deep Learning(Current)

UNDERGRADUATE

Data Mining
Operating Systems
Programming in the Unix environment
Analysis and Design of Algorithms
Programming with Java(TA)

SKILLS

PROGRAMMING

Python • Java • C • Javascript
PHP • Matlab • C++(Basic)

DATABASES

SQL • MongoDB

LIBRARIES AND TOOLS

Python NLTK • Python scikit-learn
Weka • OpenCV • d3.js

PUBLICATIONS

- "Computational study of psychosis symptoms and facial expressions", CHI 2016 Computing and Mental Health Workshop.
- "VISAGE: A Support Vector Machine Approach to Group Dynamic Analysis", poster presentation, IEEE International Conference on Machine Learning and Applications (ICMLA) 2015.
- "Automated Human Facial Expression Recognition using Extreme Learning Machines", The International Conference on Extreme Learning Machines (ELM) 2015, China.

EXPERIENCE

GOOGLE | SOFTWARE ENGINEERING INTERN

May 2016 - August 2016 | Mountain View, CA

- Worked toward improving the quality of Page Area-of-Interest (AOI) targeting in Display Ads on the GDN using Machine Learning.
- Collected ground truth data and engineered relevant features.
- Trained, tuned, evaluated and developed a stable model to be used in production.

CARNEGIE MELLON UNIVERSITY | RESEARCH ASSISTANT

Aug 2015 - Present | Pittsburgh, PA

- Working with my research advisor, Professor Louis-Philippe Morency on the analysis of non-verbal behavior for the detection of psychosis. Carried out in collaboration with Harvard Medical School.

CARNEGIE MELLON UNIVERSITY | GRADUATE TEACHING ASSISTANT

Jan 2016 - May 2016 | Pittsburgh, PA

- Teaching Assistant for the Search Engines course taught by Professor Jamie Callan.

CSS CORP | DATA ANALYTICS SUMMER INTERN

June 2014 - Sept 2014 | Bangalore, India

- Worked independently on opinion mining to build a customer dissatisfaction engine.
- Mined company-specific product reviews, extracted correlations to product features, geography, etc. and provided comprehensive visualizations.

PROJECTS

QUESTION-ANSWERING SYSTEM FOR WIKIPEDIA ARTICLES

Jan 2016 - May 2016 | Carnegie Mellon University

- Created a Question-Answering system that could generate and answer questions given a Wikipedia article.
- Responsible for portions of preprocessing and the answering module.
- Technologies used: Python, Stanford Parser, Supersense Tagger.

LEARNING TO RANK(LETOR)

Aug 2015 - Dec 2015 | Carnegie Mellon University

- Used Ranking SVMs to train a feature-based re-ranking retrieval model and evaluate it against a baseline(BM25) using Mean Average Precision(MAP) and Precision@N(P@N).
- Implemented other retrieval models like Ranked and Unranked Boolean and Indri, incorporating query expansion using pseudo relevance feedback.
- Technologies used : Java, Lucene Search Engine Library.

USER TASK PREDICTION USING FMRI SCAN DATA

Aug 2015 - Dec 2015 | Carnegie Mellon University

- Trained a one vs one SVM model for user task prediction given voxel activations from fMRI scans.
- Used unsupervised methods to impute missing voxel data ; among the top 10 best performing teams.
- Technologies used : Python, liblinear.

USER STAR RATING PREDICTION ON THE YELP DATASET

Aug 2015 - Dec 2015 | Carnegie Mellon University

- Implemented Logistic Regression and used liblinear SVM models to predict a user review star rating of a business given review text from the Yelp dataset.
- Technologies used : Python, liblinear.

FACIAL EXPRESSION RECOGNITION AND GROUP DYNAMICS

Jan 2015 - May 2015 | PES Institute of Technology

- Used the Facial Action Coding System (FACS) to recognize basic facial expressions using various classifiers. Images with groups were analyzed to study group dynamics.
- Technologies used: Python, OpenCV, scikit-learn, Numpy, Web Technologies.