XU HAN

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EDUCATION

Ph.D. Student in Computer Science   *Sep 2017 - Present*
University of Colorado Boulder, Boulder, USA
Research Interests: Human Computer Interaction, Data Science, Data Visualization
Advisor: Tom Yeh
GPA: 4.0 /4.0

B.E. in Electronic Engineering   *Sep 2013 - Jun 2017*
University of Science and Technology of China, hefei, China
Undergraduate Thesis Advisor: Joern Ostermann, Zhibo Chen

PROFESSIONAL EXPERIENCES

Alexa Skills Evaluation   *Jun 2018 - Sep 2018*
Sikuli Lab, University of Colorado Boulder, USA

· Developed a voice skill crawler to collect responses from 100 most popular Aelxa skills (Python)
· Analyzed responses data and studied these skills' compliance situations of current design guidelines
· Proposed research agenda for future evaluation tool development
· Paper is under review

e-Health Tutorial for Elder People using Browser Extension   *Jun 2018 - Present*
Sikuli Lab, University of Colorado Boulder, USA

· Designed and developed a browser extension tutorial to guide elder people to explore health information website
· Designed user studies to evaluate user experiences of different version of tutorials

Recommendation System Implementation and Visualization Based on Yelp Data *March 2018 - May 2018*
University of Colorado Boulder, USA

· Deployed machine learning methods to built a recommendation system based on the prediction of user's rating for business (Pyhton, SQL), the result of Collaborative Filtering algorithm as references
· Blended several machine learning models by assigning weights and achieved best performance(AUC = 0.82)
· Visualized the selected features, feature rankings and model training process (Javascript, HTML & CSS)

Repeat Buyer Prediction Based on User Online Shopping Logs   *Oct 2017 - Dec 2017*
University of Colorado Boulder, USA

· Deployed machine learning techniques to predict whether a customer will become a repeat buyer (Python, SQL)
· Focused on feature engineering, extracted 129 features(user demographic features, user behavioral features, merchant-related features, user-merchant interaction features, big promotion features, slope features, similarity features, PCA features) and conducted feature ranking analysis
· Ranked top 25% in the competition panel

Contact-free Camera Measurements of Heart Rate   *Feb 2017 - May 2017*
Institute for Information Processing, Leibniz University Hannover, Germany

· Implemented heart rate detection algorithm based on human face video (MATLAB)
· Optimized the algorithm under different application scenarios and generated algorithm optimization guidelines
· Proposed an updated algorithm specifically for head rotation situation

AWARDS

CSC(China Scholarship Council) National Scholarship	*2017*
UTSIP Scholarship, University of Tokyo	*2016*
Outstanding Student Scholarship, University of Science and Technology of China	*2016, 2015, 2014*
The Best Technology Award, Robogame2015, University of Science and Technology of China	*2015*

TEACHING EXPERIENCES

Teaching Assistant, CS Department, University of Colorado Boulder   *Jan 2018 - May 2018*

- Teaching Principles in User Centered Design and Prototyping (CSCI3002: Human Centered Computing and Development)

Teaching Assistant, CS Department, University of Colorado Boulder   *Sep 2017 - Dec 2017*

- Teaching data structures in C++ (CSCI2270: Data Structures)

RELEVANT SKILLS

Languages: C, C++, Python, Javascript, HTML & CSS, SQL, MATLAB
Software, System & Library: PostgreSQL, Git, Tableau, Linux, openGL