Josslyn Zhang

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🎓 Education

Colorado State University   Fort Collins, CO
B.S. Statistics, Minor in Computer Science and Mathematics   *2018*
- Awards/Honors: CURC 2018 Research Poster Awards — College Honors
- Senior Coursework: Statistical Consulting, Probability and Mathematical Statistics, Big Data, Database Systems

HuNan University   ChangSha, China
A.S English   *2018*

⚙ Skills

Technical
- Programming (most – least familiar): Python, Java, C, Hadoop, Bash, LaTeX
- Statistics: R, SAS, exploratory data analysis, complex multivariate analysis, descriptive / probability / behavioral modeling techniques
- Mathematics: MATLAB, Maple, theoretic cryptography
- Machine Learning: Scikit, TensorFlow
- Databases: MySQL, Relational Design
- Operating Systems: Mac OS X, Linux

Other
- Languages: Mandarin Chinese native speaker

📂 Projects/Research

A Machine Learning Project   *Aug. 2018*
- To be completed

Tongue Stimulation for Neural Communication of Audio Information *Feb. 2018 – May. 2018*
- Performed preliminary analysis using R to help with model selection
- Fit a linear mixed model using SAS to analyze data
- Conducted maximum likelihood ratio test for model comparison
- Conducted F-tests to determine which fixed effects were statistically significant

Estimating PageRank Values of Wikipedia Articles with Apache Spark *Feb. 2018 – May. 2018*
- Implemented idealized and taxation-based Page Rank algorithms
- Designed and implemented batch layer computation using Hadoop MapReduce and HDFS
- Setup analytics tools such as HDFS and Apache Spark

Document Summarization using TF/IDF Scores   *Feb. 2018 – May. 2018*
- Created an authorship identification system based on the similarity of the author's attributes
- Calculated TF/IDF scores using MapReduce
- Documented summarization using MapReduce

Design and implement a new Application using Raspberry Pi   *Sep. 2017 – Dec. 2017*
- Created a socket program using Python
- Gained knowledge of an add on sensot board to Rasbperry Pi: Sensor Hat

💗 Volunteer Work

AIESEC Nepal   Kathmandu, Nepal
High School Math and English Teacher   *Jan. 2015 – Mar. 2015*
- Taught basic high school algebra and geometry
- Graded both exams and homeworks
- Started English Corner event