

# Ashley Meng

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## Skills & Core Competency:

- R (4 yrs +), Python (4 yrs +), SQL (4 yrs +), PySpark, Hadoop, Hive, Pig, R markdown, LaTeX
- Azure pipelines, Kusto
- Machine Learning: Linear Regression, Logistic Regression, Random Forest, Support Vector Machine
- Deep Learning: ARIMA, LSTM, WaveNet
- Data Analysis, Statistics/Biostatistics, Data Visualization: Tableau, Excel
- Fast learner, hardworking, result driven, problem solver, team player and excellent communication skills
- Legally authorized to work in the USA

## Work Experience:

**Data & Applied Scientist**, Microsoft (through Beyondsoft Consulting Inc) Mar 2020 - Aug 2020

- Took the lead on designing, developing, maintaining Azure pipelines, providing automatic ETL and machine-learning models training in a routine basis for the following projects:
  - Deal Scoring: Guidance to provide appropriate discounts to enterprises on Azure/cloud products, utilizing two-stage semi-supervised(lightGBM & KNN) approach for training and scoring
  - Cost Insight: Guidance to provide insightful information to Azure customer about their cost and anomaly expense pattern, utilizing high-dimensional time series with deep learning
- Utilized and optimized Kusto queries in collecting and processing data with better time performance

**Data Scientist Intern**, Stanford University, Department of Medicine May 2019 - Aug 2019

- Led a women's healthcare project in R using quantile regression to identify risk factors in affecting post-stroke physical function trajectory in different groups of participants with data visualization incorporated
- Assisted in handling missing accelerometer data using distributed system to investigate variations in physical activity patterns, with a creative design in incorporating multiple imputation into clustering

## Education:

- **M.S. Statistics**, University of Illinois at Urbana-Champaign, GPA: 3.96/4.00 Dec. 2019
- **B.S. Applied Mathematics**, San Diego State University, GPA: 3.96/4.00 Aug. 2019

## Academic Research Projects:

**Housing Prices Prediction in Amex**, University of Illinois at Urbana-Champaign

- Integrated ridge regression/gradient boosting/generalized additive model into residential properties in Ames
- Conducted thorough reviews of model parameters in Python to ensure their accuracy using RMSE and achieved the accuracy above 90%

**Google Analytics Customer Revenue Prediction**, University of Illinois at Urbana-Champaign

- Led the group project in analyzing customer revenue at Google Merchandise Store on Kaggle to promote advertising strategy
- Predicted the purchase per customer using PySpark on Databricks, implementing various models and identified the characters that contribute to large revenue according to 80/20 rule

**Relevance of Coral Geometry in the Outcomes of the Coral-Algae Benthic War**, San Diego State University

- Applied random forest on coral species consisting of 14 geometrical characters for feature selection

- Generated a code pipeline and detailed report that contained predictions and suggestions for corals' protection study