

Weijia Suo

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EDUCATION

- Boston University Questrom School of Business** **Boston**
Master of Science in Business Analytics (STEM) 2021/07 – 2022/08
- Arizona State University** **Tempe, AZ**
Bachelor of Science in Computer Science and Business Data Analytics 2017/08 – 2021/05
- **Honor:** graduated with Summa Cum Laude honor; 6 semesters' continuous Dean's List Scholarships of ASU Ira A. Fulton Schools of Engineering; 4 semesters' Dean's List Scholarships of ASU W. P. Carey School of Business

WORKING EXPERIENCE

- Carvana Co.** **Tempe, AZ**
Project Engineering Intern 2020/09 – 2021/05
- Accumulated hands-on experience in full spectrum software engineering process, such as design, coding, testing, maintaining and supporting customer service satisfaction. Closed 10 sprints during this period.
 - Collaborated with senior engineer in developing a scalable interactive web-based APP to enable interactive data visualization of project updates and statistical analysis for finance department, successfully launched alpha/beta version.
 - Utilized solid JavaScript (React.Js) capabilities and sound business analysis skills in understanding companies' business flow and design requirements, delivered an entire UI in accordance.
 - Developed strong problem-solving skills in turning business ideas into functional applications, such as authenticity granting function to enable business / management units in monitoring current finance situation based on their status.
 - Undertook other responsibilities such as data analytics on current pipeline, maintaining documentations on each of finalized project to ensure consistence and heritage.

- Enterprise Marketing Hub, Arizona State University** **Tempe, AZ**
Data Assistant 2019/03 – 2021/05
- Blended solid SQL/Python/Excel skills in Extracting, Loading, and Transforming large volume data into data visualizations and generated preliminary insights from decision models and data analysis.
 - Created functional button to help managers select data and formulate various visual aids to facilitate marketing materials presentations and internal reporting matters. Ensured data integrity and data accuracy.
 - Maintained regular communication with supervisor to articulated visualized outputs and the produced analytical reports.

ACADEMIC PROJECTS

- Real-world Application w.r.t Air Tickets Over-Sold Problem (R & SQL)**
- Wrote more than 800 lines of R code, scrapped data and mined text. Performed Unsupervised learning based on decision tree and KNN algorithm.
 - Performed preliminary simulation (linear regression, Random Forest, XGboosting and other machine learning algorithms) and optimized the linear model, to understand the relationship/pattern between booking volumes and over-sold tickets. Located key factors contributing to booking applications and forecasted bookings within the next 60 days.
 - Proficient in the methods and steps of constructing statistical learning models (EDA, Feature Engineering, Model Fitting, Assessment, Selection, and Prediction).

- Data Analytics: Text Mining w.r.t COVID-19 Media Analytics (Python & SQL)**
- Demonstrated strong data analytics skills per utilizing statistical software (Python, SQL) to process data in a systematic and scientific manner, such as clustering, tokenization, formatting and POS to understand lexical and text structure.
 - Mimicked Naive Bayes algorithm and blended natural language processing algorithm in conducting sentimental analysis to understand hate speech and its frequency.

- Programming Project, an NP-hard Travelling Salesman Problem**
- Took the lead in understanding the Travelling Salesman Problem (TSP), classified as NP-hard.
 - Utilized various approaches, such as Dijkstra, Greedy algorithm, 2-opt optimization and Simulated annealing to address problems under diversified algorithms.
 - Built a GIS application in aggregation of User Interface, Map Design, Functional Tools and Navigation visualization.

Price Prediction for Used Cars Utilizing Multiple Regression Analysis (JMP Pro, SPSS, Python)

Evaluation and Improvement of Model Performance in R

Prediction of the Health Status of the Fetus (Python, R)

SKILLS

Technical Skills: Over 50,000 lines: SQL, C, C#, C++, Java, JavaScript; **Over 20,000 lines:** Python, R
Software Capabilities: MySQL, SQL Server, PostgreSQL, Microsoft Office, Tableau, SPSS, MATLAB, JMP, AWS Cloud, Visual Studio, Anaconda, Eclipse, RStudio, ReactJS, Adobe Photoshop, Adobe Audition, Ubuntu, Linux OS (Raspbian), GCC