

# Stella Wu

Plano, TX | 4695563787 | stellawu@gmail.com

## DATA SCIENTIST SUMMARY

- Master's degree in Data Science and 5+ industry experiences, solid in statistical modeling, predictive analytics and machine learning
- Proficient in R, Python/PySpark, SQL, BigQuery, Google Cloud (GCP), AWS, Azure Databricks, Tableau, PowerBI, GitHub and Microsoft Office Suite
- Experienced in advanced analytics techniques such as A/B testing, machine learning algorithms (Decision Tree, Gradient Boosting Tree, XGBoost, Random Forest, Clustering, neural network), NLP and LLM

## EDUCATION

---

**Master of Science (M.S.) - Social Data Analysis and Research** Jan 2022 - Dec 2023

*University of Texas at Dallas, Richardson, TX*

### Project Experiences:

- Streamlined data ETL in Google Cloud Big Query and SQL database for projects in house price prediction, database design, and QA chatbot development
- Utilized advanced statistical methods and data visualization for exploratory data analysis to inform model test plans and variable selection
- Designed and developed linear regression, Random Forest and Gradient Boosting Tree model for house price prediction
- Applied Natural Language Processing to house descriptions for GBM model, boosted model performance by 20%
- Analyzed NLP model results using clustering techniques to unveil patterns within textual data
- Built and tested QA ChatBot for American history using OpenAI, Retrieval Augmented Generation (RAG) and prompt engineering
- Conducted A/B testing on marketing data to evaluate performance, suggested recommendations and generated comprehensive reports
- Led teams, planned, and executed projects in data visualization and survey analysis and coordinated team efforts for successful outcomes

## EXPERIENCE

---

### Data Analyst

May 2005 - Jul 2010

*Bella Electrical Appliances, Houston*

- Utilized SQL for data organization, facilitating diverse product analysis, enhancing insights and decision-making processes
- Applied advanced statistical techniques, informing strategic decisions crucial for business growth
- Crafted visualizations, aiding stakeholder comprehension of intricate data patterns for informed decision-making
- Led hypothesis tests (e.g., t-tests, chi-square), driving 30% enhancements in product quality assurance
- Engaged with cross-functional teams to understand business needs, offering strategic support for project success and problem-solving
- Communicated insights effectively to stakeholders, translating complex analyses into actionable recommendations, driving informed decisions