SUSIE XIA

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SUMMARY

Multidisciplinary Data Analyst who currently has sights set on a full-time position. Recently Achieved Certification in Data Analytics from UC Berkeley and a master's degree in Accounting and Finance. Passionate about revealing hidden trends and patterns in massive and unstructured data, as well as building full-stack solutions with multiple Machine Learning Models. Excels at cross-team collaboration, complex problem-solving, and resiliency of multitasking by delivering data insights to diverse audiences.

TECHNICAL SKILLS

Languages: Python, R, SQL, NoSQL, JavaScript.
Database: MySQL, PostgreSQL, SQLite3, MongoDB, Access, AWS RDS.
Machine Learning: sci-kit learn, TensorFlow, Keras, PySpark.
Data Manipulation & Visualization: Pandas, Matplotlib, Plotly, Tableau, Prism, JMP.
Other: Tableau, Git, AWS, Heroku, JSON, Web Scraping, Flask, SQLAlchemy, Excel Pivot, Hadoop, Spark.

PROJECTS

AI Music Recognition | **Deploy**: https://bit.ly/susie-AI-web | **GitHub**: https://github.com/susiexia/AI_Music
- Led a team of five in creating a full-stack web app of Musical Information Retrieval that uses Convolutional Neural Network pattern recognition to analyze raw audio files to classify instruments and pitches with more than 99% accuracy.
- Designed data ETL pipelines to parse and transform raw audio files into Mel Spectrogram, load into SQL relational database, implement deep learning algorithms with three convolutional layers.
- Tools used: Python, Flask, Tensorflow Keras, PostgreSQL, SQLAlchemy, AWS S3, HTML, JavaScript, Heroku, Cloudinary API.

Earthquakes Map | **Deploy**: https://bit.ly/susie-earthquake | **GitHub**: http://bit.ly/3b7r60C
- Traversed, retrieved GeoJSON earthquake data to populate an interactive geographical map, and illustrated relationships between world-wide earthquakes with tectonic plates.
- Deployed three style layers map with popup markers and user interface controls.
- Tools used: Leaflet.js, Mapbox API, JavaScript ES6, D3.js, Leaflet control plugins, HTML, CSS.

Biodiversity Dashboard | **Deploy**: https://bit.ly/belly-dashboard | **GitHub**: bit.ly/susie-dashboard
- Retrieved and parsed 153 volunteers' samples, built an interactive dashboard to explore data on the biodiversity of the human's belly button.
- Developed and deployed dynamic data visualization, including bar, bubble, and gauge indicator chart.
- Tools used: JavaScript ES6, Plotly, D3, HTML, CSS, Bootstrap, JSON, GitHub Pages.

RELEVANT EXPERIENCE

Medical Research Data Analyst   2017 – 2020
Xiamen University School of Medicine   San Jose, CA
- Conduct data analysis for 7 peer-reviewed published medical journals.
- Interpret, evaluate, and validate experimental data to utilize R statistical language and develop graphs and tables to demonstrate and visualize with Prism.
- Collaborate with scientists and researchers to optimize workflows around collecting, identifying, managing, and analyzing raw laboratory data, resulting in a 200% efficiency boost.

Data Research Assistant   2015– 2016
University of Delaware   Newark, DE
- Accumulated financial report data of investigating over 280 public companies subject to fraudulent history.
- Analyzed and evaluated the effectiveness of disclosure and internal controls through SEC 10-K reports.

EDUCATION

Bootcamp Certificate: UC Berkeley   Berkeley, CA
A 24-week intensive program focused on gaining technical programming skills in Excel, VBA, Python, R, JavaScript, SQL Databases, Tableau, Big Data, and Machine Learning.

Master of Science in Accounting: University of Delaware   Newark, DE