





SARAH LAWSON WOODS

Data Engineer

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From mechanic to manager to big data, I enjoy challenges and overcome obstacles through perseverance. My experience in the United States Air Force taught me, I may not always be the natural best, but I will win often by trying hard. I am a highly adaptable tech savvy professional with experience in leadership and management.

TECHNICAL SKILLS

- SQL
- Python
- Pandas
- Matplotlib
- Seaborn
- Plotly
- Machine Learning
- Teamwork
- Natural Language Processing
- Apache
- Data Storytelling
- Git
- Jupyter Notebooks
- Anaconda
- Tableau

WORK EXPERIENCE

US Census Bureau 2019-2020

Field Supervisor

Managed 62 enumerators covering North-Central, South-Central and Flint Hills Regions. Contributed to state completing projects on time ranking #5 in the US.

Eucalyptus Real Estate 2017-2018

Property Manager

Managed staff of 18 at 3 locations. Directed billings and dispute resolution with residents.

Skilled/Genesis Health Care 2014-2016

Regional Manager EA

Managed 33 nursing home office assistants at various locations in KS, MO and NM. Compiled data on 33 nursing homes for analysis in Midwest region. Assisted with quarterly budget reviews. On-boarded and trained regional staff.

Eagle Support Services 2007-2010

Office Manager

Created filing system and all necessary office templates for start-up contractor. Created/ presented safety/technical trainings to staff.

United States Air Force 2003-2009

Aerospace Journeyman/Squadron CC EA.

DEVELOPMENT PROJECTS

Natural Language Processing Super Stars

Generated a model to predict which programming language a repository was in, given the text of the README file. The data was acquired by scraping repos on GitHub. Using stemming, lemmatization, sentiment analysis I was able to successfully predict whether or not a repository was written in JavaScript or not with an accuracy of 81.94%.

Loan Status Predictions

Created models to classify loan approval outcome. Used Pandas, Matplotlib, and Seaborn to explore and visualize the data, along with SciKit Learn to prepare and model. The Random Forest model performed best with an accuracy of 84%.

Home Value Forecasts

Used Zillow property data to predict tax valuation for homes sold in 2017. Data acquired via SQL was manipulated with Pandas and NumPy. Scikit-learn was utilized to create an Ordinary Least Squares model that predicted valuations \$30,000 better than the baseline model. Results were shared through a Jupyter Notebook report and live presentation.

EDUCATION

Codeup San Antonio

Fully-immersive, project-based 22-week Data Science career accelerator that provides students with 670+ hours of expert instruction in applied data science.

Washburn University Topeka

BS - Integrated Studies

Airman Leadership School Barksdale AFB

Certification - Leadership/Management

Louisiana Tech University Shreveport

AA - Applied Science

US Air Force Technical School Wichita Falls

Certification- Aerospace Ground Equipment