

David Stephens

Highly proficient data scientist. Strengths include time-series forecasting, machine learning, data modeling and web-harvesting with Python & R. Data engineering & warehousing using GCP, dbt and Python.

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[Website](#)



[Github](#)



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EXPERIENCE

Sylvan Road Capital, Atlanta, GA *Data Scientist – Research, Data and Analytics*

JUL 2022 - DEC 2022

- Built robust global and iterative forecasts comparing rmse, rsq, and mae across multiple ML models
- Forecasted macroeconomic factors – Home Price Index by MSA, 30-Year Mortgage Rate – with hyperparameter tuning, selecting best models and ensembling with weighted average
- Visualized variable importance for XGBoost & Random Forest
- Calculated correlations and visualized macroeconomic feature importance
- Built Shiny apps on shinyserver.io to share analysis with team members
- Automated forecast for housing inventory within SRC buy-box, and modeled features from external macroeconomic factors
- Created web-harvesting scripts to automate the pulling of public data from multiple sites for comparative rent analysis
- Automated R scripts to extract, transform & load data, send reports and run forecasts on multiple triggers

Adaptive Computing, Naples, FL *Lead Data Analyst*

SEPT 2020 - JUL 2022

- Led data analytics, modeling and forecasting
- Created dynamic dashboards with Power Query & Power BI linking multiple data sources
- Developed analytical models sourced from large datasets – churn rate, customer commitment and customer acquisition modeling
- Modeled 5-year financial plan comparing rolling forecasts, KPI's and highlighting insights

MSV Analytics, Mexico *Data Science Consultant*

JUN 2015 - SEPT 2020

- Created automated data pipelines using the modern data stack –

SOFTWARE

- R
- Shiny
- SQL Server
- dbt
- Python (pandas, numpy, matplotlib, gensim, etc.)
- H2O AutoML
- Google Cloud Platform
- Looker Studio
- Power BI
- Power Query
- Qlikview
- Tableau
- Hyperion
- Salesforce
- GitHub
- AWS Quicksight

SKILLS

- AutoML with H2O
- Time-Series forecasting
- ML Models – XGBoost, SVM, Random Forest, NNET, KNN, Cubist, and sequential models
- Hyperparameter tuning
- K-Means clustering
- Data modeling
- Web scraping/harvesting
- Automated ETL
- Data mining & cleansing
- Advanced data visualization
- Interactive dashboards
- Financial modeling & reporting
- Resource planning & analytics

GCP, Python, R, dbt and Looker Studio.

- Developed predictive analysis in R (tidymodels & modeltime) at channel & product level for internal planning
- Automated data ETL using dbt and R

Native Instruments, Berlin, Germany & Los Angeles, CA ***Sr. Data Analyst (Finance) & FP&A Manager***

MAR 2011 - APR 2015

- Data & process mining on large internal datasets for sales, personnel tracking, and resource planning
- Built dynamic dashboards in MS Excel for data mining & product analysis
- A/B testing future forecasts on multiple scenarios with different timing of product launches
- Responsible product life cycle (PLCM), cost analysis, sell-in curves, ROI, KPI's and end of life (EOL) for all products and brands
- Analyzed external market data to benchmark product expectations

Hewlett-Packard, Barcelona, Spain ***Data Analyst III (Finance)***

SEP 2008 - SEP 2010

- Created monthly, quarterly & yearly results for Warranty Division on EMEA Commercial Printers
- Maintained & updated dashboards for monthly roundtable meetings, sourced from Hyperion database
- Created & analyzed monthly variance reporting
- Developed and maintained KPI's for upper management decisions

Various Public & Private Companies, Philadelphia, PA ***Staff Accountant & Financial Consultant***

2004 - 2008

- Standard accounting operations for private & public companies
- SOX reporting for publicly traded companies
- Bank reconciliation, Bad Debt reporting, SOX Reporting, payroll administration, and ad hoc requests

EDUCATION & CERTIFICATIONS

Google Data Analytics

AUG 2021

Accounting & International Business ***Penn State University***

1999 - 2003

LANGUAGES

English (native)

Spanish (fluent)

German (intermediate)