DANIEL SETIAWAN

DATA SCIENTIST

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in danielosetiawan ⌂ danielosetiawan

SUMMARY

R&D Engineer with 5 years of experience in hardware, engineering, programming, and manufacturing. Possesses a strong ability to work collaboratively with teams and lead projects, with high attention to detail and analytical efficiency. Seeking to leverage professional industry experience and knowledge as a data science fellow, focused on utilizing various ML techniques and advanced statistical analysis to gain business insights pivotal for company success.

SKILLS

PROGRAMMING LANGUAGES: Python, R, SQL, SCPI (Hardware Programming), HTML, CSS, LabVIEW, Arduino C++
MACHINE LEARNING: PCA, GLM, Random Forest, XGBoost, Support Vectors, K-means Clustering, Time Series, Ensemble Modeling, Neural Networks (CNN, LSTM, BERT), Natural Language Processing, Hyperparameter Tuning
FRAMEWORKS & PACKAGES: Tensorflow, Keras, PyTorch, R Shiny, Plotly Dash, Flask, Scikit-Learn, Scikit-RF, NLTK, NumPy, Pandas, Polars, Dask, Matplotlib, Seaborn, Plotly, Bokeh, Statsmodels, SciPy, Hugging Face Transformers
TOOLS & DBMS: R Studio, Docker, MySQL Workbench, Jupyter, Git, VS Code, PyCharm, Excel (Advanced), Firebase, Google Cloud Platform, Confluence, JIRA, Grafana, Netsuite, Pagerduty, Google Analytics, Mode Analytics, Tableau

PROFESSIONAL EXPERIENCES

NYC Data Science Academy   New York, NY
Data Science Fellow   Sep. 2022 to Mar. 2023

- Developed a trading analytics technique utilizing natural language processing sentiment analysis to drive alpha strategies in ~5M scraped tweets, producing returns 10-20% higher than the traditional SMA crossover benchmark.
- Drove data-driven insights through various modeling techniques, such as: Lasso, SARIMA (timeseries), SVR, and tree-based models to predict and forecast accurate housing prices, developing effective home-flipping strategies.
- Explored consumer behavior trends associated with AirBNB & travel in order to identify and implement innovative marketing strategies that businesses and hosts can adopt to remain competitive during economic downturns.
- Conducted a comprehensive analysis of YouTube video analytics to uncover consumer marketing behavior, identify global buying trends, and discover which type of products is most impactful for certain regions / consumer groups.
- Deployed 3 interactive dashboards using Python Dash & R Shiny: translated & visualized complex datasets to break down information, allowing users to predict trends and visually compare. See dashboards here, here, and here.

Rigetti Computing   Berkeley, CA
R&D Engineer   Mar. 2018 to Current

- Designed a python-based script utilizing SCPI to automate a switch matrix, classifying devices as pass/fail and auto-generating an HTML report, resulting in an 80% reduction in manual testing time with a 98% accuracy rate.
- Programmed an automated a python script that pinpointed device characteristics (eg. resonant frequencies and reflection peaks), and generates a detailed characterization summary, delivering a 90% reduction in analysis time.
- Developed and deployed a sophisticated spreadsheet-based automation tool for contingency planning, increasing visibility for wiring schematics, automatically generating bills of materials, and tracking moving components.
- Led deployment planning for 15+ systems across 3 facilities spanning 2 countries: design comprehensive wiring schematics, audit bills of materials for procurement, and provide manufacturing hands-on support, as necessary.
- Collaborated with 5 cross-functional teams and 2 external vendors to identify improvement areas for existing R&D components and implement design-of-experiment prototypes to enhance their performance and efficiency.

EDUCATION

University of California, Santa Barbara
B.S. Chemistry 2017