

GIOVANNI COLITTI

Experienced Data Scientist with a strong background in Economics, currently building tools to drive insights and visibility into cloud infrastructure at Apple.



EXPERIENCE

2022
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Current

Apple (contract)

Data Scientist

📍 Remote

- Led the optimization of BigQuery table schemas and pipelines for trillions of rows of data, reducing query costs by over 90%.
- Contributed to the development of a K8s cost model, wrote an API to facilitate the extraction of cost information from the model, and designed a Shiny app for visualization and counterfactual analysis.
- Automated tooling for customer chargebacks and built tools to forecast resource clawbacks, streamlining reporting and planning processes.
- Developed and presented interactive K8s usage reports, enhancing internal customer visibility and efficiency.
- Performed simulations to quantify the impact of new server configs on resource fragmentation and cost.

2020
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2022

Fieldin

Senior Business Intelligence Analyst

📍 Remote

- Developed an app for interactive drag-and-drop creation of visualizations and tables in PowerPoint slides, saving users hours per week as revealed by a user survey.
- Created an algorithm for counting harvest loads by analyzing distance patterns, achieving 90% prediction accuracy.
- Developed an app for interactive mapping of machine data and additional apps for ad-hoc report creation, supporting the customer success team.
- Managed database tables serving as the backend for the apps used to support the customer success team.
- Created and managed a platform for developing and publishing web applications using ShinyProxy.

2018
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2020

Grimmway

Data Scientist

📍 Remote

- Developed machine learning models to improve sales and yield forecasts by 30-50% over previous methods.
- Built a YOLO v5 object detection pipeline to generate carrot stand count estimates with 95% accuracy, dramatically decreasing costs.
- Developed LP models to optimize planting and harvesting, maximizing yield and meeting sales demand.
- Developed an R package for time-series cross-validation.
- Analyzed research trial data, performed sample size calculations, and provided spatial sampling recommendations to the agronomy team.



EDUCATION

2018

National Taiwan University

M.S. in Agricultural Economics (4.0 GPA)

📍 Taipei, Taiwan

2016

California State University, Channel Islands

B.A. in Economics (3.8 GPA)

📍 Camarillo, CA

CONTACT INFO

✉ g.a.colitti@gmail.com

🐙 github.com/gacolitti

in <https://tinyurl.com/yfrrpukt>

🌐 <https://tinyurl.com/twxsa92>

🌐 giovannicolitti.com

SKILLS

Analytical Methods: regression, classification, clustering, feature engineering, linear programming and optimization methods, causal analysis, Bayesian and Monte Carlo methods

Programming: R (including dplyr, data.table, shiny, echarts4r, ompr, tidymodels), SQL (MySQL, PostgreSQL, GoogleSQL, MSSQL), Bash, Python, Stata, Javascript/HTML/CSS

Tools: Git, Docker, Google Cloud Platform, BigQuery, Visual Studio Code, RStudio

Languages: Fluent in English and Chinese