Mauricio Alessandrello

Data Analyst - PhD in Science and Technology

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Summary

I am a Data Analyst and a Research Scientist with a passion for solving complex analytical problems. For me, the best part of the job is thinking through a problem, feeling the satisfaction of solving it and seeing tangible improvements as a result. Here are just a few examples of problems I've solved throughout my career:

- Increased productivity by 50% (or even more) by automatizing data analysis.
- Supported decision-making by delivering clean, insightful data visualizations.
- Improved communication by writing concise yet informative reports that are both visually appealing and interactive.
- Developed a machine learning tool to reduce the error rate of analytical results.

Do you have challenges like these? I'd be happy to help!

Relevant Experience

May 2020 - Present. **Data Analyst** at CIATI Centro Tecnológico

- I developed Shiny applications using R for automated data analysis. An example can be found in the following GitHub repository: malessandrello/Button. This application allows users to upload raw data and obtain visualizations with a single click.
- I performed data modeling on laboratory analyses to predict results and reduce error rates in report generation.
- I also developed dashboards that transform data, typically from ".csv" files, into tables, graphs, and value charts with a single click, enabling rapid data visualization and facilitating decision-making (GitHub repository: malessandrello/aqua_troll).
- Additionally, I applied statistical analyses, such as the Student's t-test and ANOVA to determine significant differences in average values, leading to more accurate analytical conclusions.
- Finally, I presented analytical results in visually appealing and interactive reports using Quarto.

May 2011 - February 2018. **Research Scientist**. PhD and Postdoctoral Scholarships. University of General Sarmiento (Buenos Aires) and PROIMI (Tucumán).

- I conducted research in Environmental Biotechnology.
- I wrote and published five first-author papers in reputable scientific journals (https://notablesdelaciencia.conicet.gov.ar/author/49323).
- I also presented research projects and successfully secured funding.

Relevant Education

- EdX. Professional Certificate in Data Science (https://www.edx.org/certificates/professionalcertificate/harvardx-data-science).
- Buenos Aires City Government. Codo a Codo Program. Java Programming and MySQL Databases. Agile Methodology.
- Google Activate. Introduction to Web Development HTML and CSS.
- **Bachelor 's degree in Biotechnology**. 2006 - 2010. University of Quilmes, Buenos Aires, Argentina.
- **PhD degree in Science and Technology**. 2011 - 2015. University of General Sarmiento, Buenos Aires, Argentina.

Languages

- English: C1 (CEFR).
- German: C1 (CEFR).