

Juan Pablo Palma B.

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DATA SCIENTIST

Statistics | Programming | Data Mining | Machine Learning | Deep Learning | Graph Analytics (Network Analysis)

Achieved Master's degree in Data Analytics in Ireland | Led/delivered analytical solutions for over 35 projects in different fields | Developed programming solution to automatise costly tasks | Holistic business understanding combining Data Science, Sociology and Philosophy background.

Offering 4+ years of documented achievement in spearheading and delivering analytical solution projects and consultancy grounded solidly on technology, business, and economic value across many sectors. Repeated success in planning and coordinating high-standard research projects and delivering all designated assignments on time within budget while ensuring 100% stakeholder satisfaction. Continuous improvement leader with a strong background in data science, research methodology, data analytics design projects and delivery of significant insights for the decision-making process. Ability to solve problems, add value and deliver innovative analytics solutions with a holistic perspective to drive business success.

Technical Proficiencies: Python, R, SQL, Stata, SPSS, Excel, Tableau, PowerBI and technical report using LATEX.

KEY SKILLS & ABILITIES

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|-------------------------------------|-------------------------------|-------------------------------------|
| • Full Lifecycle Data Projects | • Programming in Python | • High Standard Academic Writing |
| • Conflict/Problem Resolution | • Programming in R | • Stakeholder Communications |
| • Team Building and Leadership | • Statistical Modelling | • Client Satisfaction and Retention |
| • Critical Thinking in Data Science | • Machine Learning Algorithms | • Continuous Process Improvement |
| • Strategic Planning and Execution | • Documentation and Reporting | • Sociology & Philosophy background |

KEY PROJECTS

Graph Analytics applied to Constitutional Convention in Chile – MSc Final Research Project | 2022

- Determined the structure of political agreements and alliances during the Constitutional Convention work. This paper contributes to understanding the Convention work based on the co-voting range reached. The data were modelled using cosine similarity matrix transformation. The network was built, analysed and plotted using the Networkx library in Python and applied cluster analysis using Greedy modularity and neighbourhood analysis.

Sample Frame for the population over 18 years in Chile – Freelance | 2021

- Developed programming solutions for costly tasks using Python to automatise processes such as building a Sample Frame based on public information of 15 million people in Chile distributed in 346 excel files. The task involved decrypting documents, removing watermarks, scraping all information over the files, and building the final data frame in CSV format. This solution was implemented using AWS, and it was the critical project after the pandemic in the business, ensuring a trustworthy pool for the essential sampling process.

PROFESSIONAL EXPERIENCE

[Data Scientist Freelance](#), Remote, Dublin, Ireland.

Mar 2021 - Jun 2021

Data Scientist | Analyst

- Developed programming solutions for costly tasks automatising processes such as a Sample Frame based on public information of 15 million people in Chile distributed in 346 excel files using programming techniques.
- Developed an automation code for cleaning databases from Computer Assisted Telephone Interviewing (CATI) using Regular expressions in Python to achieve the id-key joining among different data sets. The solution consisted of building a corpus of common surnames in Chile and all the variants to homologue surnames in different data sets, reducing a week of human work -per project- to a few seconds.

Advisor Consultant Data Analyst

- Established and implemented a guide of procedures to maintain optimal standards achieved by me in reports and products to guarantee client satisfaction after I left the company to continue with my education.
- Supported the team on the design and implementation of the project that I used to oversee. I have joined meetings to give guidance and advice for good results of the project.

Senior Data Analyst | Project Manager

- Devised and executed detailed project road maps, plans, schedules, and work breakdown structures for several public opinion projects while maturing positive working relationships with key stakeholders, such as a Forestry company, third-level education institutions or politicians.
- Enhanced communication between all stakeholders to yield improved collaboration and process alignment.
- Planned and implemented comprehensive project activities, business understanding, design, and solution proposals for around 35 projects. The activities include conceptualisation, operationalisation, design of the questionnaire survey and sampling, testing the questionnaire to avoid bias, supervising the survey team and the database building process and cleaning, and doing the data analysis and report to present the insights at the end meeting with the client.
- Ensured all projects were delivered on time, within scope and budget by coordinating internal resources and third parties for the flawless execution of projects.
- He championed continuous process improvement by redesigning processes, developing algorithms, performing data analysis, and creating an enterprise culture of data management.
- Introduced a new area of studies and post-graduated statistical modelling/analysis to improve the data analytic portfolio of the company and good practices such as replicability using code.
- Opened a Department of Development, the company concentrated on projects requiring a particular solution involving a Data Analyst specialist.

EDUCATION

MSc in Data Analytics (NFQ, EQF – level 9)

National College of Ireland, Dublin, Ireland | 2021-2022

MSc in Sociology (NFQ, EQF – level 9)

Pontifical University Catholic of Chile (#1 QS Ranking Latin America), Santiago, Chile | 2015-2016

Bachelor's degree in Sociology (NFQ, EQF – level 8)

Pontifical University Catholic of Chile (#1 QS Ranking Latin America), Santiago, Chile | 2009-2013

LICENSES AND CERTIFICATIONS

IBM Data Science Professional Certificate (10 courses) by [IBM](#) | 2021

Python for Everybody Specialization (5 Courses) by [University of Michigan](#) | 2020-2021

8 Python and 5 R courses by [DataCamp](#) | 2018-2022

HONORS AND AWARDS

Government of Ireland International Education Scholarship by Higher Education Authority | 2021-2022

Postgraduate Scholarship by Department of Sociology Pontifical Catholic University of Chile | 2015-2016

LANGUAGE SKILLS

Spanish (Native); Portuguese (Advanced); English (Advanced C1)