

# Gabriele Tani

## Profile

Gabriele Tani is a data scientist and technical leader with experience in designing and developing solutions from strategic to operational level. He has vast expertise in problem definition, data exploration, analysis and visualization, machine learning engineering and KPI definition. Deep understanding of information systems allows him to develop comprehensive and integrated solutions. He has successfully built and managed analytical teams and projects by establishing and maintaining self-learning systems under agile-scrum methodologies.

## Professional Experience

2020 to date	RowSquared Co-Founder - Data Science
2020 to date	Redo Finance (Italy) <i>Data and ML Specialist</i> <ul style="list-style-type: none"><li>• Modelling and development of end-to-end machine learning systems to predict credit scoring through the use of smartphone data for nano credit loans.</li></ul>
2019 to 2020	Polymath Ventures (Colombia) <i>VP of AI and Data Technologies</i> <ul style="list-style-type: none"><li>• Leading the data team (data scientists, data engineers, and business analysts) in product development for Credit Risk, Sales, Marketing and Operations departments.</li><li>• Define data strategy for data availability, data quality, data governance and data usability to build a data-driven company.</li></ul>
2017 – 2019	Vincuentas and Polymath Ventures (Colombia) <i>Lead Data Scientist</i> <ul style="list-style-type: none"><li>• KPI Design and Data project management.</li><li>• Building and operating of end-to-end machine learning systems (problem and data understanding, data preparation, modeling, evaluation of results, deployment).</li></ul>
2015 – 2017	Quantic Research, Nivi Group (Italy) <i>Technical Researcher</i> <ul style="list-style-type: none"><li>• Development of machine learning algorithms.</li><li>• Analytical application development.</li></ul>
2012 – 2014	Na-If (Italy) <i>Software developer</i> <ul style="list-style-type: none"><li>• Data Mining.</li><li>• Physical models software development.</li></ul>

## Education

2015	Università di Roma La Sapienza (Italy) MSc in Mathematics.
2009	Royal Holloway University of London (UK) MSc in Mathematics for cryptography and communications.
2008	Università di Roma La Sapienza (Italy) BSc in Mathematics.

## Languages

Italian (Native), English and Spanish (Fluent), French (good)

## Countries of Work Experience

Italy, Colombia.

## Skills and Software

SQL, PostgreSQL, Python, AWS Cloud Services, docker, Javascript, data analysis, data visualization, data automation, machine learning, NLP, statistics, problem solving, backend development, team leader, agile-scrum methodologies.

## Selected Project Experience

Project	<b>Risk models in Microfinance</b>
Client	Redo Finance
Year	2021
Country	Italy
Details	The project consists in providing an automatic real-time risk-assessment scoring system to expand financial access through the use of alternative data sources. The model makes use of machine learning and advanced natural language processing techniques to extrapolate valuable information from mobile-phone data and estimate the credit worthiness of potential clients.
Role	Project Manager and designer.
Project	<b>Risk models in Microfinance</b>
Client	Aflore (Polymath Ventures)
Year	2020
Country	Colombia
Details	The project aims to improve the sustainability of long-term risk management. Development of a credit risk assessment model which makes use of machine learning techniques to improve client risk estimation for the micro-credit company. Through the integration of non-standard information, such as behavioral data, the model personalizes the risk assessment for each potential client.

Role Project Manager and designer.

Project **Data Warehouse and Business Intelligence Solution**

Client Aflore (Polymath Ventures)

Year 2019-20

Country Colombia

Details The project consists in providing an advanced business intelligence architecture with an "ad hoc" data warehousing as the backbone of these processes. The designed environment provides a centralized access to distinct data sources and organises them in a manner to deliver fast and relevant data insights. AWS cloud services, Lambda functions, S3, ec2, RDS (Postgres) and Python are core parts of the projects.

Role Project Manager.

Project **Churn analysis and prediction**

Client Vincuventas (Polymath Ventures)

Year 2018-19

Country Colombia

Details Employee turn-over is a costly problem for companies, especially in the sales sector. The true cost of replacing an employee can be quite large and is often hard to estimate properly. The project provided useful insight to companies' sales departments by identifying key indicators and predicting the likelihood of an employee leaving.

Role Project manager and executor.

Project **Recommendation System for Job Matching**

Client Vincuventas (Polymath Ventures)

Year 2017-18

Country Colombial

Details Vincuventas, as a job employment platform, has the necessity to constantly improve job-candidate matching. For such purpose a bidirectional recommendation system has been designed and developed. The system makes use of state-of-the-art natural language processing techniques to improve similarity accuracy in the matching process.

Role Designer and executor.

Project **Business Intelligence Integrator**

Client Quantic Research (Nivi Group)

Year 2015-16

Country Italy

Details The project provided a real time analytic and reporting system for credit history and assessment. For this project a number of distinct data sources were integrated within a web application to provide detailed client reports and analysis through interactive dashboards.

Role Project Manager.