AHMED T. HAMMAD

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Nationality: Italian

DATA SCIENTIST | QUANTITATIVE RESEARCHER | LECTURER

INTRODUCTION

PhD in Causal Machine Learning with 10+ years of expertise in data science, and quantitative research. Proven track record in delivering impactful AI systems, leading data projects, and teaching data science to diverse audiences. Proficient in Python, R, SQL, and cloud technologies. Passionate about driving data-driven insights. Developer and maintainer of the libraries *pbox*, *rgcapi, pygcapi*. Creator of R-Genius GPT.

Expertise: Time Series Modeling, Causal Machine Learning, Incremental Learning, Algorithmic Trading,

Tech Skills: Python, R, SQL, GCP, Mlflow, Docker, Redis, API, Linux, Git, Makefiles, Promt Enginering.

PROFESSIONAL EXPERIENCE

Lead Data Science Instructor | Le Wagon, Singapore & Bali (April 2022 – Current)
Delivered intensive data science bootcamps covering Python, SQL, Machine Learning, and Deep Learning. Mentored 100+ students in building real-world AI projects and mastering developer workflows, fostering collaboration and project excellence.

Data Scientist | *Various Roles (2021 - 2024)*
- **Knight Frank, Indonesia | Indonesia:** Developed a Machine Learning system for real estate pricing predictions.
- **PT. Mantra Bali | Indonesia:** Designed AI platforms for waste monitoring, quantifying landfill usage with real-time analytics.
- **Simile | Timor-Leste:** Improved climate disaster alerts using machine learning to enhance community preparedness.
- **Tripper | Indonesia:** Developed crop yield prediction models leveraging remote sensing and time series data.
- **IoFarmIT | Italy:** Prototyped a cloud database system integrating sensor data for agricultural task automation.

Project Manager | *Ipsos & Catholic University of the Sacred Heart | Italy (2013–2018)*
- Managed large-scale program evaluations and survey designs involving 10,000+ respondents.
- Conducted advanced causal inference analyses to evaluate education policies.

EDUCATION

PhD in Causal Machine Learning
Catholic University of the Sacred Heart | Milan, Italy (2018–2022)
Visiting Researcher at *University of Leeds | Leeds, UK (Nov 2018 – Apr 2019)*
Thesis: "Causal Machine Learning for Program and Policy Evaluation."

MSc in Sociology and Social Research
University of Trento | Italy (2015–2017) Focus: Econometrics and Causal Modeling

BSc in Sociology
University of Milan-Bicocca | Italy (2010–2014) Focus: Statistics, Porgram and Policy evaluation

PUBLICATIONS
selected papers

Prioritizing COVID-19 vaccine allocation in resource poor settings: Towards an Artificial Intelligence-enabled and Geospatial-assisted decision support framework. Shayegh S.,[...], Hammad, A.T., et al., (2023). Plos One.

Probabilistic forecasting of remotely sensed cropland vegetation health and its relevance for food security. Hammad, A.T., Falchetta, G., (2022). Science of The Total Environment (STOTEN).

Planning universal accessibility to public healthcare in sub-Saharan Africa. Falchetta, G., Hammad, A.T., Shayegh S. (2020). Proceedings of the National Academy of Sciences (PNAS).

LANGUAGES

English Fluent   **Italian** Native   **Arabic** Native   **Indonesian** Intermediate