Gerard D. Ompad

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SUMMARY

Working for more than 15 years, I have an extensive expertise in computational statistics, data science and artificial intelligence, with a proven track record in both technical and leadership roles. Highly skilled in managing cross functional teams and delivering innovative A.I. and data driven solutions across diverse industries, including healthcare, pharmaceuticals, retail, energy, and telecommunications.

INDUSTRY EXPERIENCE

Senior Principal Data Scientist, DTN MeteoGroup   Oct 2020 - Present

Involved in the ideation, conception, prototyping, and development of new technologies for fuels, and environment monitoring. Utilizing multi-modal and spatial data to create new products powered by artificial intelligence and data science.

Customers and Insights Manager, Globe Telecom   Nov 2019 - Oct 2020

Leads a team of data scientists and data engineers to analyze customer behavior, and generate Know-Your-Customer report. Utilizing big data to investigate customer habits, experiences and decisions to create descriptive personas to assist in the development of new telco products.

Data Science Manager, Tiaxa   Sep 2018 - Nov 2019

Leads a team of data scientists, data engineers, and business analysts to develop new products for financial inclusivity by analyzing mobile usage, previous lending patterns, and current behavior of principal borrowers in Chile, Philippines, Nepal, and Bangladesh.

Senior Machine Learning Engineer, Natural Intelligence Solutions   Jun 2015 - Aug 2018

Develop machine learning algorithms and pipelines to cater to local industries in Philippines, Singapore, and Malaysia. Initiates the conception, planning and prototyping of minimum viable products to assist customers in their data science and machine learning requirements and needs.

Analytics Consultant, United Laboratories   Jun 2014 - Jun 2015

Leads in the development of analytics dashboard for pharmaceutical supply chain and sales.

Biostatistician, Globetekpro Science Foundation   Jan 2012 - Dec 2013

Conducts analysis of patient data undergoing chemotherapy and dendritic cell therapy.

Technical Consultant, Youth Lead   Dec 2010 - Jan 2012

Develops survey methodologies and performs analysis for UNICEF and UNFPA funded projects focusing on young key affected people.

Statistician, The Global Fund   Oct 2010 - Jan 2011

Assisting stakeholders and sub-recipients in the development of survey methodologies and analysis of HIV epidemiological data.

ACADEMIC AND RESEARCH EXPERIENCE

Lecturer, Department of Statistics, University of the Philippine-Cebu, 2025-Present

Teaches probability theory and statistics to undergraduate computer science students.

Lecturer, Department of Computer Science, University of Cebu, 2025-Present

Teaches python programming and fundamental of artificial intelligence to undergraduate computer science students.

Researcher, Data and Implementation Sciences for Health, 2025-Present

Assists in the research and development of new health technologies for tuberculosis, and HIV.

Researcher, Drug Safety Group, University of Copenhagen, 2024-Present

Assist in the conception, ideation, prototyping and development of generative artificial intelligence for drug safety, pharmacovigilance, and pharmacoepidemiology. Supports graduate students in developing codes and algorithms for their thesis and dissertations.

Lecturer, Department of Computer Science, University of San Carlos, 2023-2025

Teaches linear algebra, fundamentals of data analytics, and fundamental of artificial intelligence to undergraduate computer science students.

EDUCATION

2017 - present	MSc. (Computational) Statistics at **University of the Philippines Diliman**
2011 - 2017	MSc. Tropical Medicine at **University of the East Ramon Magsaysay Memorial Medical Center, Inc.**
2003 - 2009	BSc. Chemical Engineering at **University of San Carlos**

PUBLICATIONS

Antepuesto, Erwin et al. (2024). "Investigating Causal Relationships Between Inflation News Among Other News Topics in Philippine News Media Using Granger Causality". In: *2024 IEEE International Conference on Communication, Networks and Satellite (COMNETSAT)*. IEEE, pp. 152–160. ISBN: 979-8-3503-6808-6. DOI: 10.1109/COMNETSAT63286.2024.10862725. URL: https://ieeexplore.ieee.org/document/10862725.

Reponte, Ronan Jasper G. et al. (2024). "Multi-Network Based Approach for Drug Repurposing". In: *2024 IEEE International Conference on Communication, Networks and Satellite (COMNETSAT)*. IEEE, pp. 405–412. ISBN: 979-8-3503-6808-6. DOI: 10.1109/COMNETSAT63286.2024.10862464. URL: https://ieeexplore.ieee.org/document/10862464.

Bacus, James Vincent et al. (2025). "Detecting Diseases in Corn through Convolutional Neural Network Architectures and Ensemble". In: *Proceedings of the 2024 7th Artificial Intelligence and Cloud Computing Conference (AICCC 2024)*. AICCC '24. New York, NY, USA: Association for Computing Machinery, pp. 173–179. DOI: 10.1145/3719384.3719409. URL: https://doi.org/10.1145/3719384.3719409.

Ompad, Gerard D. et al. (2025). "Off-the-Shelf Large Language Models for Guiding Pharmacoepidemiological Study Design". In: *Clinical Pharmacology & Therapeutics*. Early View. DOI: 10.1002/cpt.70039. URL: https://ascpt.onlinelibrary.wiley.com/doi/10.1002/cpt.70039.

Skills and Toolsets

Pytorch	Main library used to create deep learning prototypes.
Python	Main programming language used fo general purpose tasks.
Plotly	Main library used for visualization and front end web application and development.
R	Main programming language used for statistics specific research projects.
SAS	Main programming language used for highly confidential patient data.
Bash	Main programming language used for Linux based tasks.
SQL & PostGresSQL	Main programming language used for data storage and management.
AWS	Main cloud base platform to store data online (S3 Buckets and Glacier Buckets).
Microsoft Office	Main tools used for administrative based documentation.
Latex	Main tools used for research documentation and journal publication.
Attlassian	Main tool used for technical documentation and task monitoring (Confluence, JIRA).
Github	Main tool used for version control and code repository.