

REINELLE JAN C. BUGNOT

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DATA SCIENTIST AND MACHINE LEARNING DEVELOPER

Growth-driven data scientist with more than 4 years of data science and A.I. development experience in the corporate and academe. Awarded the prestigious 'Magsaysay Future Engineer and Technologist' national-level (PH) award last 2019 for the published research utilizing machine learning and engineering principles. **Areas of Expertise include:**

- ◆ Exploratory Data Analysis
- ◆ Computer Vision (CNNs and ViTs)
- ◆ Data Science Solutioning
- ◆ Time Series Analysis
- ◆ Generative AI (GenAI)
- ◆ Deep Learning / Machine Learning
- ◆ Natural Language Processing
- ◆ Prompt Engineering and LLMs
- ◆ Public Speaking & Presentations

WORK EXPERIENCE

National University of Singapore, Cybersecurity Laboratory

Junior Research Assistant

2023 – Present

Conceptualized and spearheaded the development of C.A.T.E., a Trustworthy AI evaluation platform developed by the NUS-NCS Joint Cybersecurity Laboratory to assess the trustworthiness and fairness of deployed AI tools of various clients and stakeholders.

Aboitiz Data Innovation

Data Scientist

2021 – 2023

Developed end-to-end data science projects across different corporate service units under Aboitiz Equity Ventures – from pain-point discovery, project conception, machine learning modelling, and deployment – to optimize existing processes and/or solve existing problems of the company.

Top Contribution:

- **Built an Automated Document Review System.** Automated the extraction of information from financial documents into a system-readable, user-accessible, and unified material; saving **925 man-hours** annually compared to manual process.
- **Built an Insurgency Risk Scoring Dashboard.** Deployed a model that analyzes live insurgency activities across the country and outputs a risk score for 160+ target business units, resulting in **8x faster** risk assessment and response delivery.

LexisNexis Risk Solutions

Data Scientist I

2020 – 2021

Lead the analysis of key product attributes through visualization and modelling of big datasets to find areas of vulnerability and inefficiencies; and then developed automated tools using *Python* and *PowerBI* to solve these issues, resulting in reduced rates of misvaluation and improved QA team productivity.

Top Contribution:

- **Built a Test Case Generator Tool from the ground up.** Developed a tool that generates target test cases and features from the massive P.I.I. data of LexisNexis. The resulting process is **5-10x faster** than the standard procedure.

EDUCATION

Master of Science in Artificial Intelligence

Nanyang Technological University, Singapore, 2024. (Current GPA 4.3 out of 5)

Bachelor of Science in Electronics Engineering

Ateneo de Manila University, Philippines, 2019. *Cum Laude* (GPA 3.53 out of 4)

Technical Skills and Tools:

Python (Scikit-Learn, Keras, Tensorflow, PyTorch, LangChain, Geopandas etc.), SQL, C++, MATLAB, Octave, AWS (S3, Lambda, Chalice, etc.), Databricks, Power BI, Google Data Studios, Spreadsheets, etc.

NOTABLE AWARDS RECEIVED (2 OUT OF 11)

Magsaysay Future Engineer and Technologist Award

National Academy of Science and Technology, 2019

Most Outstanding Research – Innovation

Ateneo de Manila University, 2019