

BRYAN DADIZ

Quezon City, Philippines 1113 | 09275853348 | dadidelux@gmail.com | github : github.com/dadidelux

Profile

As a Data Scientist and Machine Learning Engineer, my professional ethos is anchored in leveraging analytical prowess to drive data-driven decisions and innovation. My industry experience is highlighted by my adeptness in developing AI-infused web platforms that streamline organizational communication and enhance collaborative workflows. In the realm of data engineering, I've delivered comprehensive analyses and automated processes that optimize e-commerce operations and SEO strategies, utilizing state-of-the-art tools such as Azure and PostgreSQL, Python and many more. My practical expertise is complemented by experience in IT education, equipping me with the unique ability to distill complex technical concepts into actionable insights. This fusion of hands-on development and insightful instruction positions me to contribute meaningfully to cutting-edge projects and the evolution of intelligent systems in the business sector.

Experience

Data Scientist

Bravo fit Australia

04/2024 to 03/2025

- Developed and automated end-to-end data ingestion pipelines using Python and Linux shell scripting (Bash), extracting data from Source APIs and loading into Azure Data Warehouse.
- Transformed large-scale financial and employee datasets using Python and MS SQL (CTE queries), creating analysis-ready datasets to support data-driven decision-making.
- Past successful projects made during the time of work are as follows:
 - Customer Churn Analysis: end to end approach deployed in Microsoft Fabric Service/ Power BI
 - Member Attrition Analysis: end to end approach deployed in Microsoft Fabric Service/ Power BI
 - Pay Categories Report: end to end approach deployed in Microsoft Fabric Service/ Power BI
 - Revenue Accounting Report: end to end approach deployed in Microsoft Fabric Service/ Power BI
 - HR Analytics – Emp. Tenure Report: end to end approach deployed in Microsoft Fabric Service/ Power BI
- Tools: Dbeaver IDE, Azure Data Studio, Visual Studio Code, Linux Ubuntu, SSH, MS-SQL, Python, Power BI, Microsoft Fabric
(Skills: Business Intelligence, Data Analysis, Data Engineering, Software Engineering)

AI Engineer

CPRAS(remote contract)

**07/2022 to 09/2024
Warrington England, UK**

- Developed OpenAI integration by leveraging the company knowledge base for enhanced information retrieval and interaction.
- Implemented cutting-edge GPT-4 models to elevate the sophistication of language processing and understanding in various applications.
- Development of a Retrieval Augmented Generation for developing an action-based case generator AI tool that serves as template UK environment councils.
- Tools implemented are Django Framework, Pinecone Vector Database, OpenAI Models, Python.
(Skills: Python, Django, LLM, OpenAI API)

Data Analyst

Hearns Hobbies (remote part-time)

**11/2022 to 02/2024
Melbourne Australia**

- Conducted in-depth analysis by designing reports and comparing Traxxas RC cars and Tamiya Model Kits, extracting and preprocessing data using web scraping scripts, and implementing ETL processes for comprehensive product price analysis.
- Utilizing BeautifulSoup, Selenium, Scrapy and WEB API for scraping and data extraction from the web.

- Utilized data-driven techniques to provide actionable recommendations and optimize business strategies, contributing to improved overall business performance such as Customer Lifetime Value.
- Demonstrated proficiency in report design, web crawling, and ETL processes, leveraging these skills to support data-driven decision-making.

(Skills: Python, Azure Functions, Azure Web Service, Microsoft SQL, ETL, Selenium, Scrapy)

Data Science Developer

06/2023 to 03//2024

Scrapwave/Viseon/Super Apps LTD (remote contract)

Singapore, Singapore

- I provide consultancy on the given technologies for DevOps production.
- I provide consultancy on Dashboard design and help build dashboards.
- I provide EDA and ETL process diagrams to their pipeline.

(Skills: Python, Streamlit, Postgres SQL, Django, Django ORM, Machine Learning)

Data Specialist

06/2023 to 03//2024

Kidzapp (remote contract)

UAE, Dubai

- Developed and implemented automation solutions using Streamlit to create dynamic dashboards, enhancing data visualization and accessibility for stakeholders.
- Engineered Python automation scripts to integrate and harmonize data from diverse sources like CleverTap and database backends, enabling consistent generation of weekly reports.
- I Designed and established robust OLAP (Online Analytical Processing) pipelines to facilitate the efficient creation of comprehensive reports, driving data-driven decision-making and business intelligence initiatives

(Skills: Python, Streamlit, Postgres SQL, Django, matplotlib)

Adjunct Data Science Specialist Instructor

01/2023-01/2024

CIIT College of Arts and Technology Inc. (remote)

Quezon City, Philippines

- Collaborated with a team of Data Science Specialist Instructors to deliver high-quality educational content.
- Employed Lyon Learning Management System (LMS) for efficient course management and student engagement.
- Conducted doubt sessions, mentoring, and supervisory activities to support students in their Data Science learning journey.
- Led evening and weekend sessions to accommodate diverse student schedules and promote flexible learning opportunities.

Adjunct Faculty in Data Analytics

01/2023-00/2023

Upgrad (remote)

Mumbai, Maharashtra, India (Remote)

- Conducted doubt sessions for international students, providing guidance and support in Data Analytics.
- Covered key topics including Data Modeling and Advanced SQL Queries, ensuring comprehensive understanding of the subject matter.
- Facilitated weekend sessions as part of a seasonal schedule, offering flexibility for diverse student availability.

Data Analytics Consultant

10/2022 to 11/2023

DevOpstechnologiesPh (hybrid)

Quezon City, Philippines

- I provide consultancy on the given technologies for DevOps production.
- I provide consultancy on Dashboard design and help build dashboards.
- I provide EDA and ETL process diagrams to their pipeline.

(Skills: Python, Excel, Power BI, Tableau, Big Query, Looker Studio)

Web Developer – (contract)

10/2019 to 02/2020

AskTheDragon.com

Quezon City, Philippines

- Developed the Computational Thinking Education website using the Django Development Framework: <https://ct.askthedragon.com/>.
- Created a feature-rich site with Learning Management System (LMS) capabilities.
- Established an intuitive online platform for computational thinking education and simplified admission processes.

(Skills: Python, Django Framework)

Associate Faculty Level 4 – (on-site)**06/2009 to 7/2023****Technological Institute of the Philippines - MNL****Manila, Philippines**

- I teach Computer Science and Tech-Related courses, focusing on Data Science, to over 40 students per semester, with an average course rating of 93%.
- I incorporate tools like Java, HTML, CSS, JavaScript, Python, SQL, Excel, and Power BI, completing projects that improve coding proficiency by 20% and data visualization skills by 50%.
- I have developed and led 50 plus thesis/capstone projects where students used these tools to analyze datasets of up to 400MB plus size, presenting actionable insights to real-world case studies.

Past Projects

Project Shipping Recommender**Freelance, Philippines**

- Created a Fast API backend application that utilizes natural language processing library from Facebook called FAISS to perform text similarity for recommending shipping prices.

Project: GPT AI Engineer**Philippines**

- Created a dynamic web platform with AI and seamlessly integrated it into company communication channels such as Discord and Microsoft Teams, fostering collaborative and efficient communication across the organization.
- Integration of ChatGPT API on Discord and Microsoft Teams.

Project: Data Engineering**Melbourne Australia, Remote**

- Generated a comprehensive design report and business insights for comparing e-commerce Hobby model kits.
- Developed a web scraping script as a web crawler, extracting and preparing data for in-depth product price comparison analysis.
- Automated SEO improvement for product descriptions in the database using AI, enhancing the visibility and searchability of extracted product sources.
- Tools Azure and Postgres SQL

Project: Analytics Dashboard (Kids Activities eCommerce) – Data Specialist**QC, Philippines**

- Conducted thorough research on Clevertap's data extraction capabilities and gathered requirements for data types, structures, and key metrics.
- Explored Clevertap's interface, related it to the API, and established a preliminary mapping aligning Clevertap data with backend data.
- Planned the implementation of a time series prediction model for Performance Prediction, identifying potential marketing opportunities and product performance trends.
- Emphasized leveraging user behavior insights, including factors like demographics and past user behavior, to understand user churn and optimize marketing strategies.

Project: Analytics Dashboard (Drop-shipping eCommerce) – Data Science/Dev**Singapore, Singapore**

- Develop analytics dashboard modules for product similarity analysis and recommendation suggestions.
- Implement web scraping for product data from AliExpress and Amazon.
- Utilize similarity algorithms to determine product similarity based on features.
- Create forecasting engines for predicting product performance in the market.

Project: Python Backend Developer (Contract)**BGC, Philippines**

- Responsible for Features and bugfixes of the Bayad App
- Managing specific part of the Admi Panel for the Bayad App

Education

Doctor of Philosophy: Information Technology

PhD Candidate Manila

De La Salle University

GPA: 3.5 / 4

- **Coursework in Data Science and Computer Science**
- Major in Machine Learning and Data Analytics
- Specific Research Experience: Human Emotion Recognition for Face and Body Structure
- Recent Thesis: focuses on detecting depression in videos using uniform local binary pattern (ULBP) on facial features. The proposed method involves analyzing facial features and expressions using ULBP, which is a texture descriptor that captures the local patterns of an image. The study has analyzed a dataset of videos of depressed and non-depressed individuals to determine the effectiveness of the proposed method. The findings of this research showed 93% accuracy for facial expression alone. This study will contribute to the development of automated systems for detecting depression and will have significant implications for mental health research and clinical practice.
- Publisher in SCOPUS

Doctor of Philosophy: Information Technology

09/2024 Ragusa

Selinus University

- **Design and Implementation of Big Data and Analytics to Enhance Dynamic Price Comparison Analytics of an e-Commerce Enterprise Company in Australia**

Master of Science: Information Technology

05/2012 Manila

Technological Institute of the Philippines

- CAPSTONE: AVIPRES is an innovative animated video creator application designed for smartphones that utilizes cutting-edge mobile graphics technology to produce high-quality frame-by-frame video animations on Android devices. The app offers a user-friendly interface that enables users to easily create visually appealing animations with just a few taps on their phones. With AVIPRES, users can select from a variety of pre-built characters, backgrounds, and props to create unique storylines and narratives.
- Awarder for Outstanding Research Output in Promoting Technological Application presented in the National Research Forum of REDTI (Research and Educational Development Training Institute - Philippines)

Bachelor of Science: Computer Science

05/2009 Manila

Technological Institute of the Philippine

Certifications

- Power BI DAX Essentials by Dynamic Web Training Australia on 10/2024
- Power BI Advance Concepts by Dynamic Web Training Australia on 09/2024
- Hacker Rank Skill Certificate – Python Basic on 04/2024
- Docker for Developer – Linkedin Learning on 04/2024
- Hacker Rank Skill Certificate – Problem Solving Basic on 04/2024
- Data Visualisation: Empowering Business with Effective Insights on 12/2022
 Certificate of Completion by Forage in, honing skills in business scenario framing, visual selection, effective visual creation, and insight communication analysis.
 - **Credential ID: 293cvJrGPQidayEph**
- Coursera/Google Professional Certificate 8/8 on 12/2022
 - Foundations: Data, Data, Everywhere
 - **Credential-id: Y8XFRSDH3ULH**
 - Ask Questions to Make Data-Driven Decisions
 - **Credential-id: KFWNU8ERB7XE**
 - Prepare Data for Exploration
 - **Credential-id: ZT382PL2D78T**
 - Process Data From Dirty to Clean,
 - **Credential-id: 2VBEP4KQ5GA4**
 - Analyze Data to Answer Questions,
 - **Credential-id: VNQR6HR476T8**
 - Share Data Through the Art of Visualization
 - **Credential-id: JFD3U9HU44LP**
 - Data Analysis with R Programming
 - **Credential-id: 6SCPHURJPHR5**
 - GDAC: Complete Case Study 8/8 Data Analysis with R Programming
 - **Credential-id: DRZ7E72QLXYS**
- **The Data Analyst Course: Complete Data Analyst Bootcamp** on 11/2022
 by 365 Careers on Udemy.
 - Credential-id: **UC-b4e93798-f2ae-4d81-a0c6-c2db16952669**
- Coursera/Google Specialization Google Data Analytics
 - **Credential-id: 8BWL7GDSY3V**
- PhilNITS Certification: IT Passport Certification Examination on 04/2014
 - **Credential ID IP08-0016**

Most Recent Research Activity

- Bondoc, E. R. P., Dadiz, B., Dadiz, B., Aranas, J. (2023). **An NLP-based malicious destruction recognition on web-based online articles using machine learning**. In 2023 10th International Conference on ICT for Smart Society (ICISS). doi: 10.1109/ICISS59129.2023.10291886
- Regla, A. I., E Dadiz, B. G. (2023). **A Convolutional Neural Network Study on Depression and Eye Blink Analysis**. In the International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075 (Online), Volume-12 Issue-5, April 2023 doi: 10.35940/ijitee.I7540.0881019
- Dadiz, B. G. E Regla, A. I., (2022) , **Online Courier Management System with Text Blast and QR Code Technology**, IEEE International Conference on Artificial Intelligence in Engineering and Technology (IICAET), Kota Kinabalu, Malaysia, 2022, pp. 1-6, doi: 10.1109/IICAET55139.2022.9936809.
- Bacuna R. D. and Dadiz B. G. (2022). **eSAM: Attendance System Using QR Codes in Romblon State University-Cajidiocan Campus**, 2022 International Conference for Advancement in Technology (ICONAT), Goa, India, 2022, pp. 1-5, doi: 10.1109/ICONAT53423.2022.9725959.
- Canillo, L. J. L., E Dadiz, B. G. (2021). **Understanding Issues Affecting the Dissemination of Weather Forecast in the Philippines: A Case Study on DOST PAGASA Mobile Application**. In S. K. Bhatia, S. Tiwari, S. Ruidan, M. C. Trivedi, E K. K. Mishra (Eds.), *Advances in Computer, Communication and Computational Sciences* (Vol. 1158, pp. 73). Springer, Singapore. https://doi.org/10.1007/978-981-15-4409-5_73
- Santos A. B. G., Bllera M. F., Abante M. V., Balba N. P. ,Rebong C. B. and Dadiz B. G. (2021). **Asymptotic Analysis of the Running Time Performed by Various Sorting Algorithms**, 2021 International Conference on Intelligent Technologies (CONIT), Hubli, India, 2021, pp. 1-6, doi: 10.1109/CONIT51480.2021.9498490.
- Ramos, A. L., Dadiz, B. G., E Santos, A. B. G. (2020). **Classifying emotion based on facial expression analysis using Gabor filter: A basis for adaptive effective teaching strategy**. *Computational Science and Technology*, 15, 469-479. https://doi.org/10.1007/978-981-15-0058-9_45
- Santos, A.B.G., Dadiz, B.G., Liwanag, J.L., Valdez, MP.M., Dela Cruz, M.D.C., Avinante, R.S. (2020). **A Multi-Layer Perceptron Model in Analyzing Parametric Classification of Students' Assessment Results in K12**. In: Alfred, R., Lim, Y., Haviluddin, H., On, C. (eds) *Computational Science and Technology. Lecture Notes in Electrical Engineering*, vol 603. Springer, Singapore. https://doi.org/10.1007/978-981-15-0058-9_15
- Dadiz, B. G., E Ruiz, C. R. (2019). **Detecting depression in videos using uniformed local binary pattern on facial features**. In *Computational Science and Technology* (pp. 413-422) Springer. https://doi.org/10.1007/978-981-13-2622-6_40
- Balahadia F. F., Dadiz, B. G., Ramirez, R. R., M. Luvett, M., Lalata, J. -a. P. and Lagman, A. C. (2019), **Application of Data Mining Approach for Profiling Fire Incidents Reports of Bureau of Fire and Protection**, International Conference on Computational Intelligence and Knowledge Economy (ICCIKE), Dubai, United Arab Emirates, 2019, pp. 713-717, doi: 10.1109/ICCIKE47802.2019.9004420.
- Prospero, M. R., Lagamayo, E. B., Tumalak, A. C. L., Santos, A. B. G., E Dadiz, B. G. (2018). **Skybiometry and AffectNet on facial emotion recognition using supervised machine learning algorithms**. In *Proceedings of the 2018 International Conference on Control and Computer Vision (ICCCV '18)* (pp. 18- 22). Association for Computing Machinery. <https://doi.org/10.1145/3232651.3232665>
- Prospero, M.R. , Dadiz B. G. (2019), **Analysing the quality of phaseolus vulgaris family of legumes using artificial neural network and “bag of features” techniques**, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*

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MIT, PhD