

# BRYAN DADIZ

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## 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

<b>CPRAS</b>	<b>07/2022 to Current</b> <b>Warrington England, UK</b>
<ul style="list-style-type: none"><li>Developed OpenAI integration by leveraging the company knowledge base for enhanced information retrieval and interaction.</li><li>Implemented cutting-edge GPT-4 models to elevate the sophistication of language processing and understanding in various applications.</li><li>Development of a Retrieval Augmented Generation for developing an action-based case generator AI tool that serves as template UK environment councils.</li><li>Tools implemented are Django Framework, Pinecone Vector Database, OpenAI Models, Python.</li></ul>	
<b>Data Analytics Consultant</b> <b>DevOpstechnologiesPh</b>	<b>10/2022 to 11/2023</b> <b>Quezon City, Philippines</b>
<ul style="list-style-type: none"><li>I provide consultancy on the given technologies for DevOps production.</li><li>I provide consultancy on Dashboard design and help build dashboards.</li><li>I provide EDA and ETL process diagrams to their pipeline.</li></ul>	
<b>DICT Professional Trainer (Seasonal)</b> <b>ICT Literacy and Competency Development Bureau</b>	<b>11/2022 to Present</b> <b>Manila, Philippines</b>
<ul style="list-style-type: none"><li>In this work experience, I provide Web Development with Analytics Training</li><li>This a week-long training of 25 students.</li><li>In the training students will learn Django Web Framework and Develop a introductory application that elicits CRUD features.</li></ul>	
<b>Web Developer - Contract</b> <b>AskTheDragon.com</b>	<b>10/2019 to 02/2020</b> <b>Quezon City, Philippines</b>
<ul style="list-style-type: none"><li>Developed the Computational Thinking Education website using the Django Development Framework: <a href="https://ct.askthedragon.com/">https://ct.askthedragon.com/</a>.</li><li>Created a feature-rich site with Learning Management System (LMS) capabilities.</li><li>Established an intuitive online platform for computational thinking education and simplified admission processes.</li></ul>	
<b>Associate Faculty Level 4</b> <b>Technological Institute of the Philippines - MNL</b>	<b>06/2009 to 7/2023</b> <b>Manila, Philippines</b>
<ul style="list-style-type: none"><li>I teach Computer Science courses and anything Tech-Related to Data Science</li><li>The tools I use are Java, HTML, CSS, Javascript, Python, SQL, Excel and Power BI</li></ul>	

## Past Projects

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### Projects: 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

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### Doctor of Philosophy: Computer Science

De La Salle University

Manila

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

### Master of Science: Information Technology

Technological Institute of the Philippines

Manila

- 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

Technological Institute of the Philippines

Manila

- Thesis was to do a comparative analysis of the Boyer Moore Horspool and Boyer Moore Sunday algorithms in searching text in a whole book. The study will analyze the efficiency and speed of both algorithms in processing large amounts of text and identify the strengths and weaknesses of each algorithm. The research methodology involves testing both algorithms on a dataset of books with varying lengths and complexity. The results were analyzed using statistical methods to identify any significant differences in performance between the two algorithms.

## Certifications

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- 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
  - **Credential ID IP08-0016**

on 04/2014

## 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](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](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](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](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., Tumulak, 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 CS