Russel Janzen E. Mamaclay

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Education

University of Santo Tomas   Manila, Philippines
BS in Computer Science, GWA:1.42   2020 - 2024
 Specializing in Data Science
Awards: Magna Cum Laude, Consistent Dean's Lister

University of Santo Tomas Senior High School   Manila, Philippines
Science, Technology, Engineering and Mathematics Strand   2018 - 2020

University of Santo Tomas Education High School   Manila, Philippines
                                                                                                                        2014 - 2018

Technical Skills & Projects

Programming: Python, SQL, R, Javascript and Java
Skills: Data Analysis and Visualization, Machine Learning, Statistical Analysis, Data Automation and Web Scraping
Tools: Microsoft Power BI, Power Automate, Tableau

Thesis Requirement: Mental State Recognition through Speech Analysis ([Published under IEEE](#))
Developed a hybrid model using BiLSTM and CNN for mental state recognition. Preprocessed audio data with augmentation and feature extraction. Evaluated model performance using confusion matrices and classification reports, achieving high accuracy.

Brain Tumor Detection Using MRI Images
Utilized VGG-19, a pre-trained deep learning model, to classify brain tumors with high accuracy. Prepared MRI datasets through data pre-processing and fine-tuned model parameters to adapt to specific nuances in brain MRI scans.

Experience

Regal Rexnord   Pasig City, Philippines
Data Analyst II   October 2024 – Present

- Developed interactive Power BI dashboards to deliver actionable insights, enhancing decision-making processes.
- Automated workflows and data processing with Python and SQL, increasing efficiency by 30%.
- Conducted data analysis to identify trends and opportunities, driving strategic improvements.
- Integrated external data via web scraping, enriching analytics and reporting accuracy.

SM Investments Corporation - DataLabs   Pasay City, Philippines
Data Science Intern - Merchandise Analytics   January 2024 - April 2024

- Built a pipeline using NLP techniques and DistilBERT to extract brands, measurements, and packaging information from unstructured product descriptions, improving data extraction accuracy.
- Utilized Selenium and BeautifulSoup for web scraping and developed automation pipelines, streamlining departmental tasks and supporting generative AI projects.

Leadership & Activities

10th International Conference on Smart Computing and Communication   **Undiknas University, Bali, Indonesia**
Presenter and Author   July 25-27, 2024

- Presented and published our undergraduate thesis, "*Mental State Recognition through Speech Analysis Using Bidirectional Long Short-Term Memory Network and Convolutional Neural Network Hybrid Model*," highlighting innovative techniques in speech analysis and mental state recognition.

UST ICS Student Council   University of Santo Tomas
Chief-of-Staff   July 2023 - May 2024

UST Central Student Council   University of Santo Tomas
Executive Associate to the Auditor   July 2022 - May 2023

UST Central Student Council   University of Santo Tomas
Executive Associate to the Treasurer   August 2020 - June 2021

UST Senior High School Student Council   University of Santo Tomas
Treasurer   June 2019 - May 2020

UST Education High School Student Council   University of Santo Tomas
Chief-of-Staff   June 2017 - May 2018