Jocelyn Carmen Dumlao
Data Scientist

CONTACT DETAILS

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Date Of Birth: December 14, 1970
Place Of Birth: Sabah, Malaysia
Nationality: Filipino
Gender: Female

GENERAL SKILLS

Data Visualization, Machine Learning
Programming, Data Preparation
Data Analysis, Statistics, Probability
Database Structure & Algorithms
Logistic /Linear Regression, wrangling,
Explainable Artificial Intelligence

TECHNICAL SKILLS

Operating System: Windows, MacOS

Programming Language
R, Python, SQL, Tableau,

Other Software/Tools

Microsoft Excel, SPSS
Google Spreadsheet, Google Colab notebook,
jupyter notebook

LANGUAGES

- English
- Tagalog
- Bahasa Malaysia

ORGANIZATION

PARSSU–Philippine Association of
Researchers and Statistical Software Users
Inc.
Kaggle.com –The Largest Data Science
Community
GitHub.com -
Analytic Vidhya – The Largest Data Science
Community of India
DPhi Bootcamp – Data Science Community
Bootcamp

WORK EXPERIENCE

June 2020   **Freelance Data Scientist**

Data Scientist Responsibilities:
- Identifying relevant data sources for business needs.
- Collecting structured and unstructured data
- Sourcing missing data
- Organizing data into usable formats
- Building predictive models
- Design and implement machine learning algorithms
- Enhancing the data collection process
- Processing, cleaning & verifying data
- Analyzing data for trends and patterns and finding answers to specific questions
- Develop, implement, and maintain databases
- Assess the quality of data and remove or clean data
- Generating information and insights from datasets
- Create visualizations, reports, and dashboards of data

Explainable Artificial Intelligence
https://github.com/jcdumlao14/ExplainableAI-XAI-.git
"Breast Cancer"
- Breast Cancer is computed from a digitized image of a fine needle aspirate (FNA) of a breast mass. They describe the characteristics of the cell nuclei present in the image.
- Evaluate the model using the Accuracy Score
- Using the model with SHAP and Lime.

Machine Learning Challenge:
https://github.com/jcdumlao14/ML-Challenge.git
Prediction on "Greenland: Hospital Patient Survival"

- To build a Machine Learning model that predicts the chances of survival of a patient after 1 year of treatment.
- Exploratory Data Analysis that this is a classification problem as the target column 'Survived_1_year treatment has two values 0 - means the patient did not survive after one year of treatment, 1- means the patient survived after one year of treatment
- Applying different algorithms: Logistic Regression, ridge, SVM (Support Vector Machine), Naive Bayes (Gaussian Naive Bayes), KNN (K-Nearest Neighbors), K-Means (Classification and Regression Tree), Random Forest, Decision Tree.
- Evaluate the f1 score

Capstone Projects:

1. **"MovieLens Datasets" https://github.com/jcdumlao14/movielens.git**

- The exploratory data analysis helps to understand the dataset structure.
- Develop and employ machine-learning algorithms to generate predictions which are then exported for a final test (final hold-out test set).
- The plot indicates a strong correlation between user, movie, and genre as calculated by Residual Mean Square Error (RMSE).

CERTIFICATES

Deploying Machine Learning Pipelines using PyCaret
Aug. 18, 2022
Machine Learning Problem
Solving from Seasoned Professional Aug. 15, 2022
Introduction to Numpy   Aug. 14, 2022
Introduction to Data Visualization with Matplotlib
Aug. 3, 2022
Getting Started with Natural Language Processing
Aug. 3, 2022
Introduction to Exploratory Data Analysis
Aug. 3, 2022
Introduction to Pandas   Aug. 2, 2022
Pre-requisites For Deep Learning Bootcamp
July 31, 2022
Getting Started with Deep Learning
July 14, 2022
Unsupervised Learning   July 9,2022
Time Series 101   July 2022
Data Visualization 101 using Tableau
July 05,2022

Data Science Bootcamp
Artificial Intelligence   May 9, 2022
5 Weeks Data Science Bootcamp
(Machine Learning Challenge)   April 15, 2022
SQL for Data Science   February 2022
PCAP: Programming Essentials
in Python Intermediate   Jan. 20, 2022
Data Science Exploratory Data Analysis
Python Programming Language Oct. 17, 2021
Machine Learning Certification October 2021
Course for Beginners

Data Science Machine Learning
Python   November 2021
Data Science: R Basics   June 25, 2020
Data Science: Visualization   July 25, 2020
Data Science: Probability   August 21, 2020
Data Science: Inference and
Modeling   Sep. 15, 2020
Data Science: Productivity Tools Oct. 4, 2020
Data Science: Wrangling   Oct. 23, 2020
Data Science: Linear Regression Dec. 2, 2020
Data Science: Machine Learning Feb.13,2021
Data Science: Capstone   May 17, 2021
Data Science Professional Certificate   May 2021

TRAINING/SEMINARS

- PARSSU-Webinar On QUALITATIVE & MIXED METHODS RESEARCH: Approaches, Techniques, and Computer-Assisted Data Analysis – (NVIVO & MaxQDA software)– November 21 & 28, 2021

- Webinar On Data Analytics Fundamentals on AWS – AMAZON – October 28, 2021

- Webinar On Data Analytics with Python – Le Wagon Mexico – October 2, 2021

- Webinar On Visualizing Time–Series Forecasting with snowflake, Preset, and MindsDB - October 13, 2021

- PARSSU- Webinar On Predictive Analytics: Concepts and Applications in the Academic and Business – (clementine software data mining)– September 24, 2021

- AWSOMEDAY ONLINE CONFERENCE – Introduction to the cloud – September 30, 2021

Capstone Projects:

2. **"Red Wine Quality Dataset"**
   https://github.com/jcdumlao14/redwine.git
- The Red Wine Quality Dataset contains 1,599 observations and ta total of twelve (12) attributes in the data set, eleven (11) of the attributes are numeric physicochemical.
- I am applying Machine Learning techniques that go beyond standard Linear Regression.
- Use Exploratory Data Analysis (EDA) technique to explore the relationship between one variable to multiple variables.
- Explore selected datasets for visualization, distribution, outliers, and anomalies.

March 2008 – December 2019   **Audit Committee**
Macebolig Farmers' Cooperative
Macebolig, Kidapawan City

Duties and Responsibilities:
- Assisting the board's oversight of the integrity of the cooperative's financial statements.
- The performance of the cooperative's internal audit function
- The cooperative's compliance with legal and regulatory requirements
- Attended monthly meetings
- Participate Cooperative Activities
- Attended coaching and mentoring on Auditing and Bookkeeping.

April 1994 – March 2007   **Accounting Clerk**
Commission On Audit – Mati
Mati City, Davao Oriental

Duties and Responsibilities:
- To assist the auditor in conducting an Audit Cash Examination of different barangays and municipalities
- To assist the auditor in consolidating of Financial Statement and Trial Balance.
- To assist the auditor in encoding the Annual Audit Report of different agencies like the National Food Authority, Mati National Comprehensive High School and each Cluster School, Development Bank of Philippines, and other Municipalities.

EDUCATION

University of Southeastern Philippines
Obrero, Campus, 8000 Davao City

Master of Public Administration
18 Units -undergrad.

Bachelor of Science in Mathematics   April 10, 1994

Harvard University/Edx
Data Science Professional Certificate
R Programming Language(9 courses)   May 2021
    Data Science: **R Basics**   June 25, 2020
    Data Science: **Visualization**   July 25, 2020
    Data Science: **Probability**   August 21, 2020
    Data Science: **Inference and Modeling** September 15, 2020
    Data Science: **Productivity Tools**   October 4, 2020
    Data Science: **Wrangling**   October 23, 2020
    Data Science: **Linear Regression**   December 2, 2020
    Data Science: **Machine Learning**   February 13, 2021
    Data Science: **Capstone**   May 17, 2021

EDUCATION

DPhi Data Science Courses

Deploying Machine Learning Pipelines using PyCaret	Aug. 18, 2022
Machine Learning Problem Solving from Seasoned Professional	Aug. 15, 2022
Introduction to Numpy	Aug. 14, 2022
Getting Started with Natural Language Processing	Aug. 3, 2022
Introduction to Exploratory Data Analysis	Aug. 3, 2022
Introduction to Pandas	Aug. 2, 2022
Pre-requisites For Deep Learning Bootcamp	July 31, 2022
Getting Started with Deep Learning	July 14, 2022
Unsupervised Learning	July 9,2022
Time Series 101	July 2022
Data Visualization 101 using Tableau	July 05,2022

DPhi Data Science Bootcamp

Introduction to Data Visualization with Matplotlib	Aug. 3, 2022
Machine Learning Challenge	April 15, 2022
Artificial Intelligence	May 9, 2022

Great Learning
SQL for Data Science	February 2022

CISCO Networking Academy
PCAP: Programming Essentials in Python Intermediate	January 20, 2022

Your Data Teacher
Data Science: EDA-Python	October 17, 2021

Analytics Vidhya
Data Science Machine Learning	November 2021