

PATRICIA A. ILE-MENDOZA

Virginia Beach, VA 23455 | pilem001@odu.edu

Skills

Programming Languages: Python, R, SQL, NoSQL, HTML, CSS, Scala

Frameworks / Libraries: Pandas, Numpy, Scipy, Matplotlib, Hadoop, Spark, Hive, TensorFlow

AWS: S3, Redshift, Athena

Operating Systems : Mac OS, Linux (Ubuntu), Windows, iOS

IDEs: PyCharm, Visual Studio, Jupiter Notebooks, R Studio, Spyder

Databases: MySQL, MongoDB


Software: Microsoft Office, LibreOffice, Git, LaTeX, Tableau, Ggplot2, Weka, AutoCAD, Google Docs, SharePoint, Minitab, Adobe Photoshop

Languages:
English, Romanian, Spanish

Education

Master of Science (M.S.), Data Science and Analytics

Concentration: **Computational Data Analytics**

 Old Dominion University
May 2022

Relevant Coursework:

CS 795 Natural Language Processing,
CS 580 Intro to Artificial Intelligence,
STAT 603 Statistical and Probability Models for Data Science,
STAT 604 Statistical Tools for Data Science,
CS 624 Data Analytics for Big Data,
CS 625 Data Visualization,
CS 569 Data Analytics for Cybersecurity

Objective

Data Science Graduate Student seeking a challenging position to facilitate the interpretation and management of data in order to solve complex problems. Bringing in a variety of data skills such as statistics, analytics, and computer science integrated with a strong business and finance foundation.

Projects

Natural Language Processing Methods used to Analyze Behavioral Finance on a Social Media Environments | Sep 2021-2022

Web Scraped a wide range of social media platform comments and investigated their relationship with respective time series stock prices along with short volumes. Tools used: Python, Web Scraping, Tokenization, Sentiment Analysis, Word Cloud, Linear Regression.

House Prices - Advanced Regression Techniques | Mar-May 2021

Identifying the variables related to increased home prices, using a variety of algorithms in Machine Learning such as Logistic Regression, Clustering, Classification and KNN. Tools used: Python, Tensorflow, Pytorch, Pyspark, Hive, SciPy


Data Science Financial Analysis with Python | Sep-Dec 2020
Calculated and assessed a variety of different financial computations, including volume moving average, candle stick charts, Monte Carlo Simulation and KNN with a 10-year time frame of stock price data on 3 stocks and 3 indices. Tools used: Python, Numpy, Pandas, Sklearn, Matplotlib, SciPy

Professional Experience

Company Name Withheld on Website Resume |
Apr 2017 – Jul 2018
Associate Surveillance Compliance Analyst II

- Identified potential risks for the firm's global legal and compliance teams; collaborated on apparent anomalies, special investigations, and reported findings to supervision
- Analyzed 1,000+ transmissions of daily business correspondence for a variety of businesses within the firm, translated and assessed foreign language communication for time-sensitive material
- Monitored daily business activity of 200,000+ personnel, safeguarded information, ensured adherence to internal controls and regulatory laws, verified markets are fair and transparent, in order to reduce systemic risk and financial crime
- Tested lexicon systems and changes to regulatory specifications, flagged any non-compliance issues and made recommendations for enhancements; adjusted surveillance process and procedures as necessary

**Bachelor of Science
(B.S.), Business
Administration**
Concentration: *Financial
Analysis*

 University at Buffalo,
The State University of
New York | Dec 2016

Relevant Coursework:
MGF 471 Financial Derivatives,
MGF 402 Investment
Management,
MGQ 301 Statistical Decisions in
Management,
MGF 405 Advanced Corporate
Finance,
MGA 306 Financial Reporting
and Analysis

**Community
Involvement**

Volunteer Member, Board of
Directors | EMW Soccer, Elma,
NY
May 2016 – Sep 2018

- Conducted analytical evaluations in order to identify potential risks for the firm, resulted in the ability to process a larger amount of information, quickly assess regulatory, reputational, and operational risks
- Performed behavioral analysis on correspondence, ensured compliance in accordance with policies, procedures, and regulatory requirements; maintained detailed and organized quality control records
- Reviewed new regulations, industry guidelines and requirements, prepared reports and presented them to senior management
- Compiled meeting minutes into electronic communication to distribute internal changes and implementations of policies and regulations; maintained all documents on our database for future use, investigations and internal audits
- Investigated, researched, and resolved compliance conflicts and regulatory issues that arose from surveillance monitoring, assisted in the proactive mitigation and resolution of daily compliance risk issues