**Cabildo, Adan L. | BSCS-SS212**

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| **Questions/Problems** | **Analytics Problem Type** | **Analytics Technique** |
| In terms of location:   * Identify the countries that are nearest to each location where the highest number of pirate attacks has occurred. * Identify the country of origin for ships with the highest number of pirate attacks.   In terms of time:   * Identify whether pirate attacks occur more during Daytime or Nighttime. * Identify what months does the pirate attacks occur more.   In terms of economic impact:   * Identify the total loss of profit per year because of these attacks.   Identify what type/characteristic of ships do pirates attack more often.  Identify what country is more reliable when building a logistics company, investing, or hiring services for logistics/cruising. | Descriptive | Geospatial analysis  Time-series analysis  Linear and Logistic Regression  Random Forest |
| What route is optimal for logistics and/or cruising?  Optimize scheduling shipments to avoid high-risk regions during specific times.  Evaluate the effectiveness of different response strategies to pirate attacks. | Prescriptive | Logistic Regression  K-means |
| How many pirate attacks can we predict that will happen in the following months?  What would be the impact on potential profit if the number of pirate attacks stays the same, increases, or decreases? | Predictive | Time-series forecasting  Linear Regression  Random Forest |