World Happiness Index Workflow

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| --- | --- | --- | --- | --- | --- | --- |
| **Sunday** | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** | **Saturday** |
|  |  |  |  |  | **5** | **6** |
| **7**  5 hours | **8**  0 hours | **9**  0 hours | **10**  5 hours | **11**  5 hours | **12**  5 hours | **13**  5 hours |
| **14**  5 hours | **15**  5 hours | **16**  5 hours | **17**  5 hours | **18**  5 hours | **19**  5 hours | **20**  5 hours |
| **21**  5 hours | **22**  5 hours | **23**  5 hours | **24**  5 hours | **25**  5 hours | **26**  5 hours | **27**  5 hours |

**If deadline is not met, you’ll have to get dinner with Diana and Eric.**

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| **Section** | **Task** | **Time** | **Date** |
| 6.1 – 9 hours | Source data | 1 hours | Saturday, May 6, 2023 (1 day late) |
|  | Data wrangling and merging | 1 hours | Saturday, May 6, 2023 (1 day late) |
|  | Data cleaning | 0.25 hours | Saturday, May 6, 2023 (1 day late) |
|  | Limitations and ethics | 1 hour | Saturday, May 6, 2023 (1 day late) |
|  | Key questions | 0.25 hour | Saturday, May 6, 2023 (1 day late) |
|  | Documentation | 1.25 hours | Saturday, May 6, 2023 (1 day late) |
| 6.2 – 3 hours | Removing variables | 0.25 hour | Sunday, May 7, 2023 |
|  | Correlation matrix | 0.75 hour | Sunday, May 7, 2023 |
|  | Scatterplot | 0.5 hour | Sunday, May 7, 2023 |
|  | Pair plot | 0.25 hour | Sunday, May 7, 2023 |
|  | Categorical plot | 2 hours | Wednesday, May 10, 2023 (3 days late) |
|  | New questions | 0.25 hour | Wednesday, May 10, 2023 (3 days late) |
|  | Hypothesis | 0.25 hour | Wednesday, May 10, 2023 (3 days late) |
| Reading | Read 6.3 | 1 hour | Wednesday, May 10, 2023 (3 days late) |
| 6.3 – 3 hours | Setup JSON | 0.25 hour | Wednesday, May 10, 2023 (3 days late) |
|  | Gather data | 0.25 hour | Thursday, May 11, 2023 (4 days late) |
|  | Wrangle data | 0.5 hour | Monday, May 9. 2023 |
|  | Clean data | 0.5 hour | Monday, May 9. 2023 |
|  | Choropleth map | 0.5 hour | Monday, May 9. 2023 |
|  | Documentation | 0.5 hour | Monday, May 9. 2023 |
| Reading | Read 6.4 | 2 hours | Friday, May 12, 2023 (4 days late) |
| 6.4 – 4 hours | Setup scikit-learn library | 0.25 hour | Friday, May 12, 2023 (4 days late) |
|  | Gather data | 0.5 hour | Friday, May 12, 2023 (4 days late) |
|  | Wrangle data | 0.5 hour | Friday, May 12, 2023 (4 days late) |
|  | Clean data | 3.5 hour | Friday, May 12, 2023 (4 days late) |
|  | Visual exploration | 0.25 hour | Tuesday, May 11. 2023 |
|  | Hypothesis | 0.25 hour | Tuesday, May 11. 2023 |
|  | Reshape variable | 0.25 hour | Tuesday, May 11. 2023 |
|  | Split data | 0.25 hour | Tuesday, May 11. 2023 |
|  | Linear regression | 0.25 hour | Tuesday, May 11. 2023 |
|  | Linear regression plot | 0.25 hour | Tuesday, May 11. 2023 |
|  | Performance statistics | 0.25 hour | Tuesday, May 11. 2023 |
|  | Output comparison | 0.1 hour | Tuesday, May 11. 2023 |
|  | Documentation | 0.15 hour | Tuesday, May 11. 2023 |
| Reading | Read 6.5 | 1 hour | Tuesday, May 11. 2023 |
| 6.5 – 3 hours | Gather data | 0.25 hour | Tuesday, May 11. 2023 |
|  | Wrangle data | 0.25 hour | Tuesday, May 11. 2023 |
|  | Clean data | 0.25 hour | Tuesday, May 11. 2023 |
|  | Elbow technique | 0.25 hour | Tuesday, May 11. 2023 |
|  | Number of clusters | 0.25 hour | Wednesday, May 12, 2023 |
|  | K-algorithm | 0.25 hour | Wednesday, May 12, 2023 |
|  | Visual for clustered data | 0.25 hour | Wednesday, May 12, 2023 |
|  | Descriptive statistics | 0.25 hour | Wednesday, May 12, 2023 |
|  | Future steps | 0.5 hour | Wednesday, May 12, 2023 |
|  | Documentation | 0.5 hour | Wednesday, May 12, 2023 |
| Reading | Read 6.6 | 1 hour | Wednesday, May 12, 2023 |
| 6.6 – 6 hours | Setup Quandl | 0.5 hour | Wednesday, May 12, 2023 |
|  | Gather data | 0.5 hour | Wednesday, May 12, 2023 |
|  | Wrangle data | 0.5 hour | Wednesday, May 12, 2023 |
|  | Clean data | 0.5 hour | Wednesday, May 12, 2023 |
|  | Subset data (optional) | 1 hour | Thursday, May 13, 2023 |
|  | Line chart | 0.25 hour | Thursday, May 13, 2023 |
|  | Decomposition | 0.75 hour | Thursday, May 13, 2023 |
|  | Dickey-Fuller test | 0.5 hour | Thursday, May 13, 2023 |
|  | Round of difference (optional) | 0.5 hour | Thursday, May 13, 2023 |
|  | Autocorrelations | 0.5 hour | Thursday, May 13, 2023 |
|  | Documentation | 0.5 hour | Thursday, May 13, 2023 |
| Reading | Read 6.7 | 1 hour | Thursday, May 13, 2023 |
| 6.7 – 9 hours | Decide on story | 0.5 hour | Friday, May 14, 2023 |
|  | Intro story point | 0.5 hour | Friday, May 14, 2023 |
|  | Hypothesis | 0.5 hour | Friday, May 14, 2023 |
|  | Showcase results | 0.5 hour | Friday, May 14, 2023 |
|  | Result interpretations | 0.5 hour | Friday, May 14, 2023 |
|  | Summary | 0.5 hour | Friday, May 14, 2023 |
|  | Nest steps | 0.5 hour | Friday, May 14, 2023 |
|  | Limitations | 0.5 hour | Friday, May 14, 2023 |
|  | Create storyboard | 0.5 hour | Friday, May 14, 2023 |
|  | Design Revamp | 0.5 hour | Friday, May 14, 2023 |
|  | Publish | 0.5 hour | Saturday, May 15, 2023 |
|  | Create Github repository | 0.5 hour | Saturday, May 15, 2023 |
|  | README file | 1 hour | Saturday, May 15, 2023 |
|  | Case study | 2 hours | Saturday, May 15, 2023 |
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