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| **Unit Assessor:** | Ei Thandar Khaing |
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| **Learner declaration** |
| I certify that the work submitted for this assignment is my own and research sources are fully acknowledged.      Student signature: Date: November 4, 2023 |

Task Wise Solutions:

1. Data Science Tools
   1. Python
      1. Company Using: Google
      2. Purpose of Use: Google uses Python for various applications including data analysis and machine learning.
      3. Benefits: Python is easy to learn, has a strong set of libraries for data manipulation and analysis, and is widely used in the data science community.
      4. Before and After: Before using Python, data analysis tasks might have been more time-consuming and complex. After adopting Python, Google can perform these tasks more efficiently and effectively.
   2. R
      1. Company Using: Pfizer
      2. Purpose of Use: Pfizer uses R for statistical analysis and graphics representation in drug development.
      3. Benefits: R provides a wide variety of statistical and graphical techniques and is highly extensible.
      4. Before and After: Before using R, Pfizer might have faced challenges in statistical computing and graphics. After adopting R, Pfizer can now easily handle these tasks.
   3. TensorFlow
      1. Company Using: Twitter
      2. Purpose of Use: Twitter uses TensorFlow for machine learning tasks such as text classification for tweets.
      3. Benefits: TensorFlow allows developers to create large-scale neural networks with many layers and is also very flexible and capable.
      4. Before and After: Before using TensorFlow, Twitter might have struggled with text classification. After adopting TensorFlow, Twitter can now classify tweets more accurately and efficiently.
2. BI Tools
   1. Tableau
      1. Company Using: Amazon
      2. Purpose of Use: Amazon uses Tableau for visualizing data and gaining insights.
      3. Benefits: Tableau is a powerful data visualization tool that can help Amazon understand their data better.
      4. Before and After: Before using Tableau, Amazon might have had difficulty visualizing and understanding their data. After adopting Tableau, Amazon can now easily visualize their data and gain valuable insights.
   2. Power BI
      1. Company Using: Adobe
      2. Purpose of Use: Adobe uses Power BI for business analytics and to share insights across their organization.
      3. Benefits: Power BI is a suite of business analytics tools that deliver insights throughout an organization.
      4. Before and After: Before using Power BI, Adobe might have had difficulty sharing insights across their organization. After adopting Power BI, Adobe can now easily share insights and make informed decisions.
   3. Looker
      1. Company Using: The Economist
      2. Purpose of Use: The Economist uses Looker to analyze their data and make data-driven decisions.
      3. Benefits: Looker is a modern platform for data that offers data analytics and business insights to every department at a company.
      4. Before and After: Before using Looker, The Economist might have had difficulty analyzing their data. After adopting Looker, The Economist can now make data-driven decisions.