**Technology Report Outline**

**Topic: Machine learning using Python**

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| **Introduction**  **Python is used for a wide variety of applications, but I will focus specifically on machine learning.** |

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| **Body**   |  | | --- | | Description of the Technology  Machine learning is the study of enabling computers to learn from data, with the aim of giving them human-like intelligence and decision-making ability.  The name machine learning was given to IBM engineer Arthur Samuel in 1959  Python makes it easy to do machine learning because it already has the parts that make the models work | | Purpose and Function  Machine learning finds patterns and regularities in data and uses them to perform tasks such as prediction and classification.  As an example, I show how logistic regression works and how easy it is to express it in Python. | | Impact on Society  In addition to logistic regression, there are other methods such as neural networks and deep learning that achieve high performance in areas such as image recognition and natural language processing.  Machine learning contributes to scientific research, innovation, and productivity in a variety of fields. | | Dependent Technology  Chat GPT  Optimization of ads | |

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| **Conclusion**  **Chatgpt has dramatically reduced the difficulty of programming, and I encourage everyone to try it.** |