

## Practical List – AI – Std 11

### 1. Practical File Note: The following to be included in Practical File

- one certification (IBM Skills Build /any other industry certification)
- at least one activity from each unit
- one participation certificate of bootcamp/internship

1. Categorize the given applications into the three domains.
2. IBM Skills Build – Introduction to AI
3. Identify ten companies currently hiring employees for in specific AI positions.
4. Note down the technical skills and soft skills listed by any two companies for the specific AI position.
5. Python programs using operators, data types, control statements (Level 1)
6. Python programs on Numpy, Pandas, Scikit-learn (Level 2)
7. Create an empathy map for a given scenario.
8. Project Abstract Creation Using Design Thinking Framework.
9. Python programs to demonstrate the use of mean, median, mode, standard deviation and variance.
10. Python programs to visualise the line graph, bar graph, histogram, scatter graph and pie chart using matplotlib.
11. Calculation of pearson correlation coefficient in MS – Excel.
12. Demonstration of Linear regression in MS – Excel / using python program.
13. Demonstration of k – Nearest Neighbour using python program.
14. Demonstration of k – means clustering using python program.  
(Sample programs for regression, classification and clustering along with the dataset is in this link.)
15. Create a chatbot on ordering ice-creams using any of the following platforms:
  - a. Google Dialogflow
  - b. Botsify.com
  - c. Botpress.com
  - d. Any other online platform
16. Python program to demonstrate the working of a chatbot.
17. Python program to summarise the given text.
18. Summarize your insights and interpretations from the video "Humans need not apply."
19. Comparative study of AI policies (that involve examining guidelines and principles) established by various organizations and regulatory bodies.
20. Understanding ethical dilemma using

- Moral machine
- Survival of the best fit

2. Capstone Project Note: Problem definition, The Users, Brainstorming and Design stages must be completed in the (IBM) Log Book