

PART- B VOCATIONAL SKILLS

Mind Map

THE THREE DOMAINS OF AI AND THEIR APPLICATIONS

- What is Artificial Intelligence
- What is Deep Learning
- What are three Domains of AI

1. Data /Data Science

Data Science is related to

- ⇒ **What is Data Mining**
- ⇒ **What is Machine Learning**
- ⇒ **What is Big Data**

❖ **Applications of Data Science**

- ✓ **Finding Patterns in Data**
- ✓ **Detecting Fraud**
- ✓ **Predicting diseases**
- ✓ **Weather Forecasting**
- ✓ **Sports Analytics**
- ✓ **Shopping Websites**

2. CV (Computer Vision)

❖ **Applications of Data Science**

- ✓ **Recognising objects or Understanding Images.**
- ✓ **Face Recognition for unlocking in smartphones.**
- ✓ **Sorting Objects**
- ✓ **Self-Driving Cars**
- ✓ **Medical Imaging**
- ✓ **Security s Surveillance**

3. NLP (Natural Language Processing)

NLP has two sub-categories :

1. **Natural-Language Understanding**
2. **Natural-Language Generation**

❖ **Applications of NLP are:**

- ✓ **Talking to Machines -- *Voice Assistance, Chatbots***
- ✓ **Translating Languages**
- ✓ **Language Generation for helping write s read**
- ✓ **Voice -to-text**
- ✓ **Automatic Subtitles**
- ✓ **Grammar and Spell Checking**
- ✓ **Personal News Feeds**
- ✓ **Language Learning Apps**
- ✓ **Legal s Medical Document Analysis**