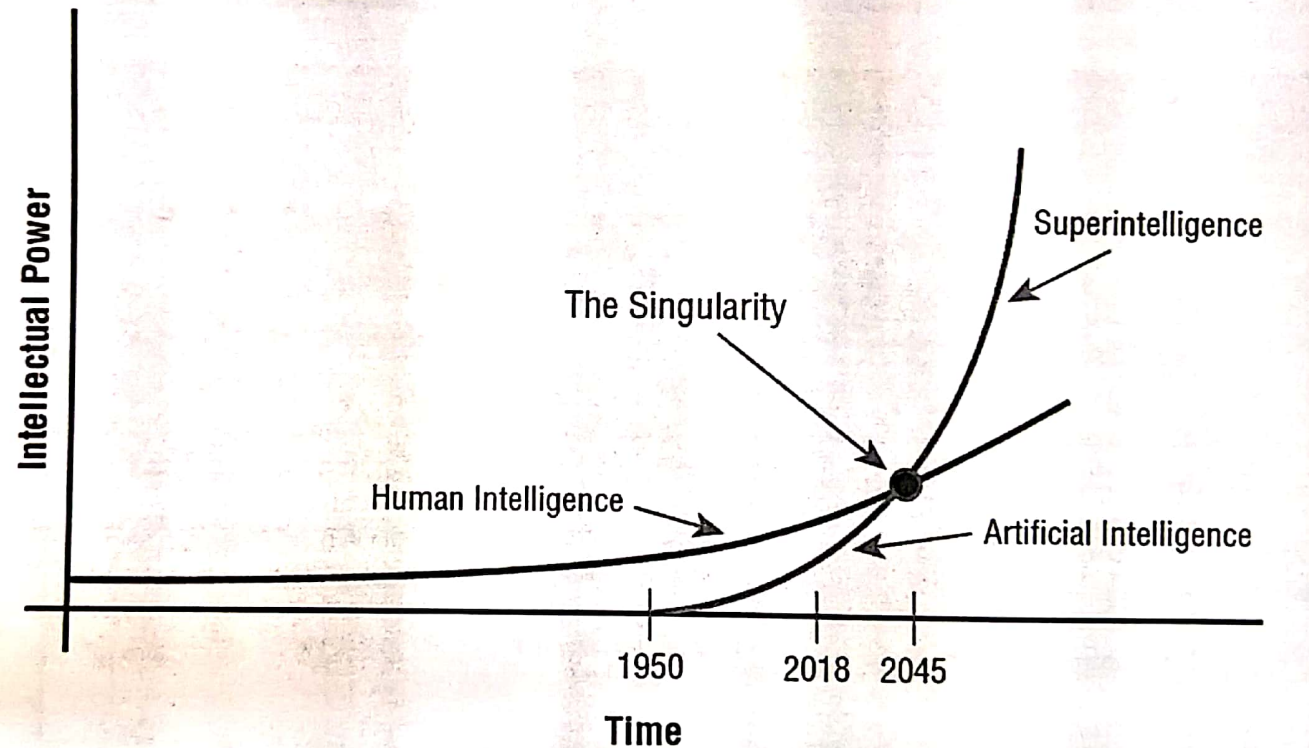
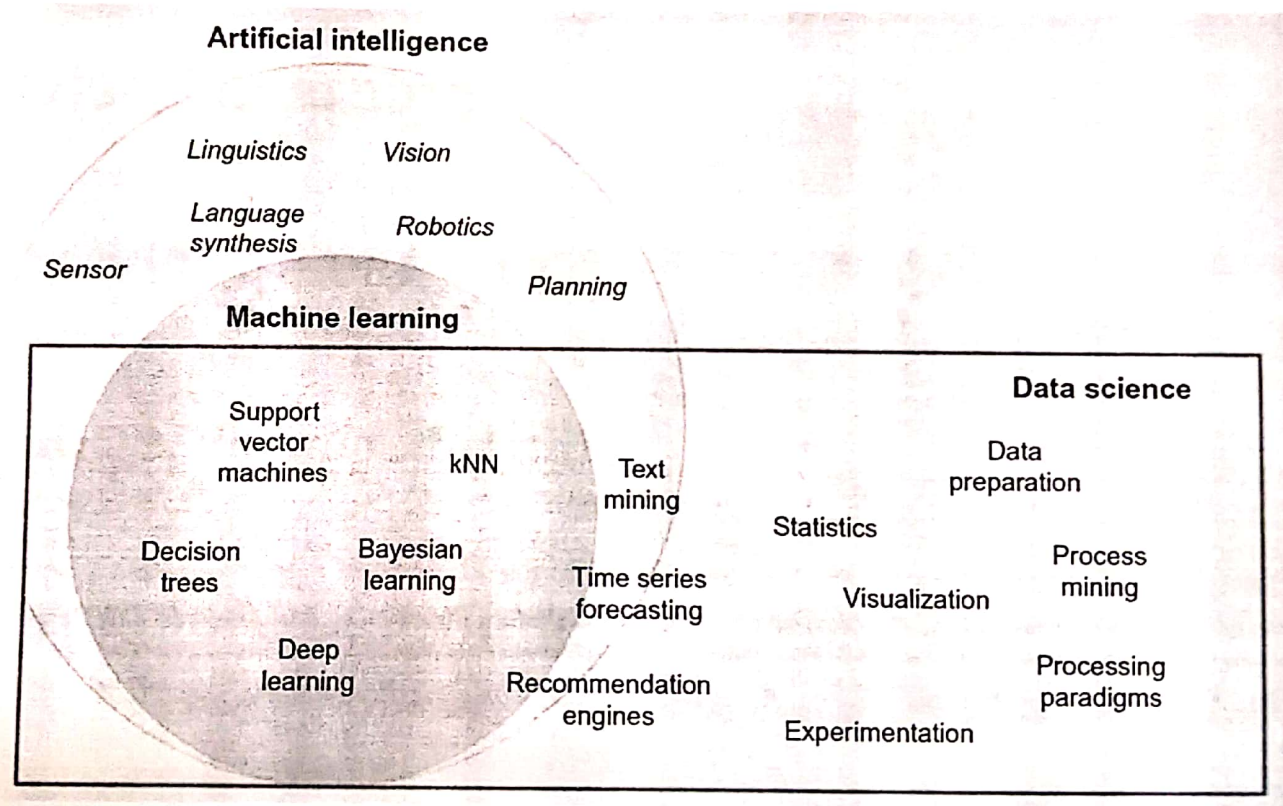


The technological singularity and the timeline of artificial intelligence compared with human intelligence



Artificial intelligence, machine learning, and data science



Categories of Machine Learning

- **Supervised Learning**
- **Unsupervised Learning**
- **Semi-supervised Learning**
- **Reinforcement Learning**

A list of commonly used machine learning algorithms

- Linear regression
- Logistic regression
- Linear discriminant analysis
- Classification and regression trees
- Naive Bayes
- K-mean clustering
- Learning vector quantization
- Support vector machines
- Bagging and random forest
- Boosting and AdaBoost
- Deep Learning (CNN, etc.)
- Etc.

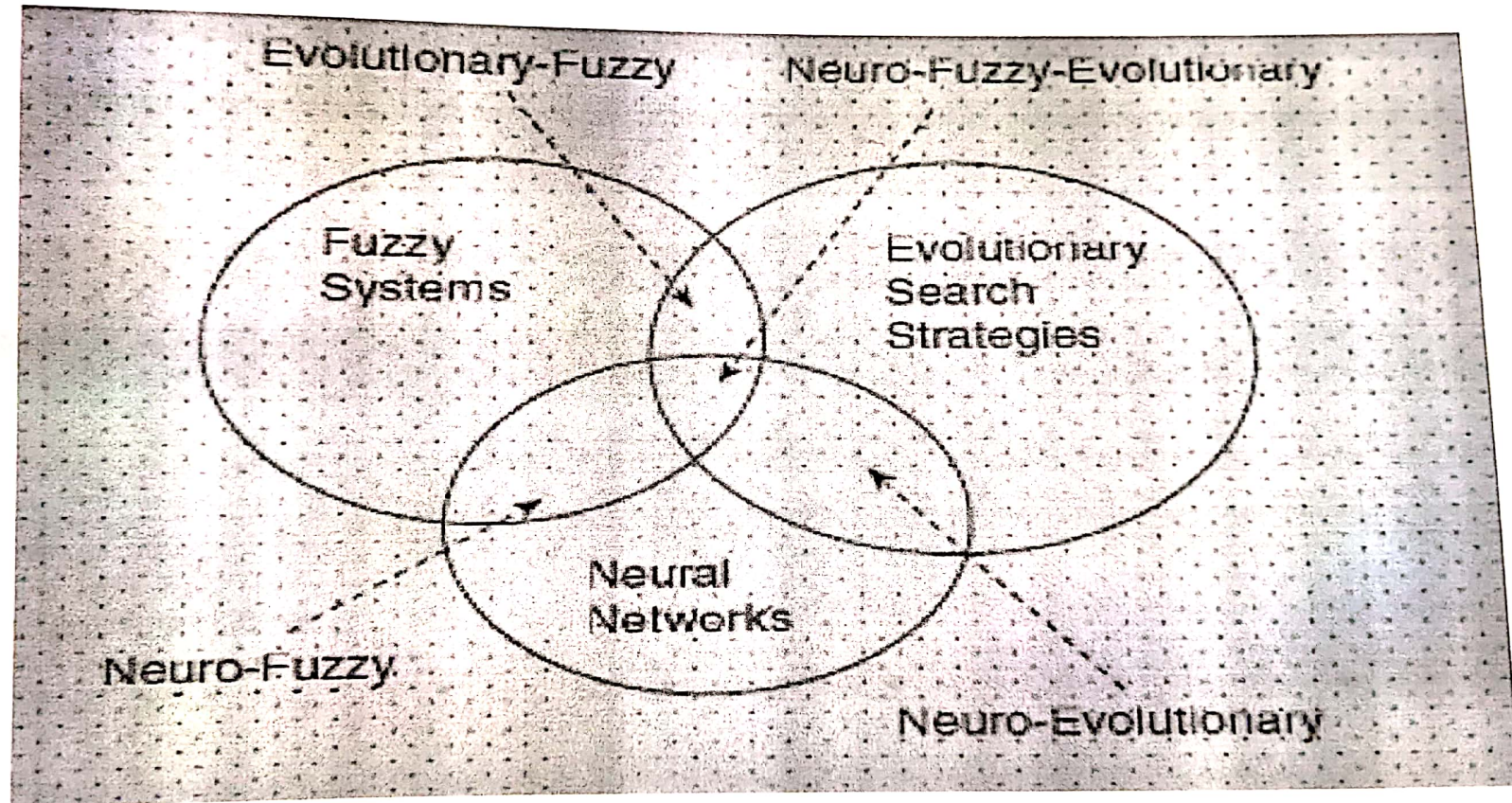
Paradigms for Pattern recognition

- Statistical Pattern Recognition
- Syntactic Pattern Recognition

Soft Computing Techniques

#	Technique	Application domain
1	Fuzzy systems	Vagueness / imprecision / inexactness / Approximate reasoning
2	Rough sets	Vagueness / inexactness in information systems
3	Artificial neural networks	Learning and curve fitting / Pattern classification. association. clustering
4	Probabilistic reasoning	Uncertainty and belief propagation
5	Evolutionary searches	Complex optimization

Principal Components of Soft Computing



Principal Constituents of Soft Computing

