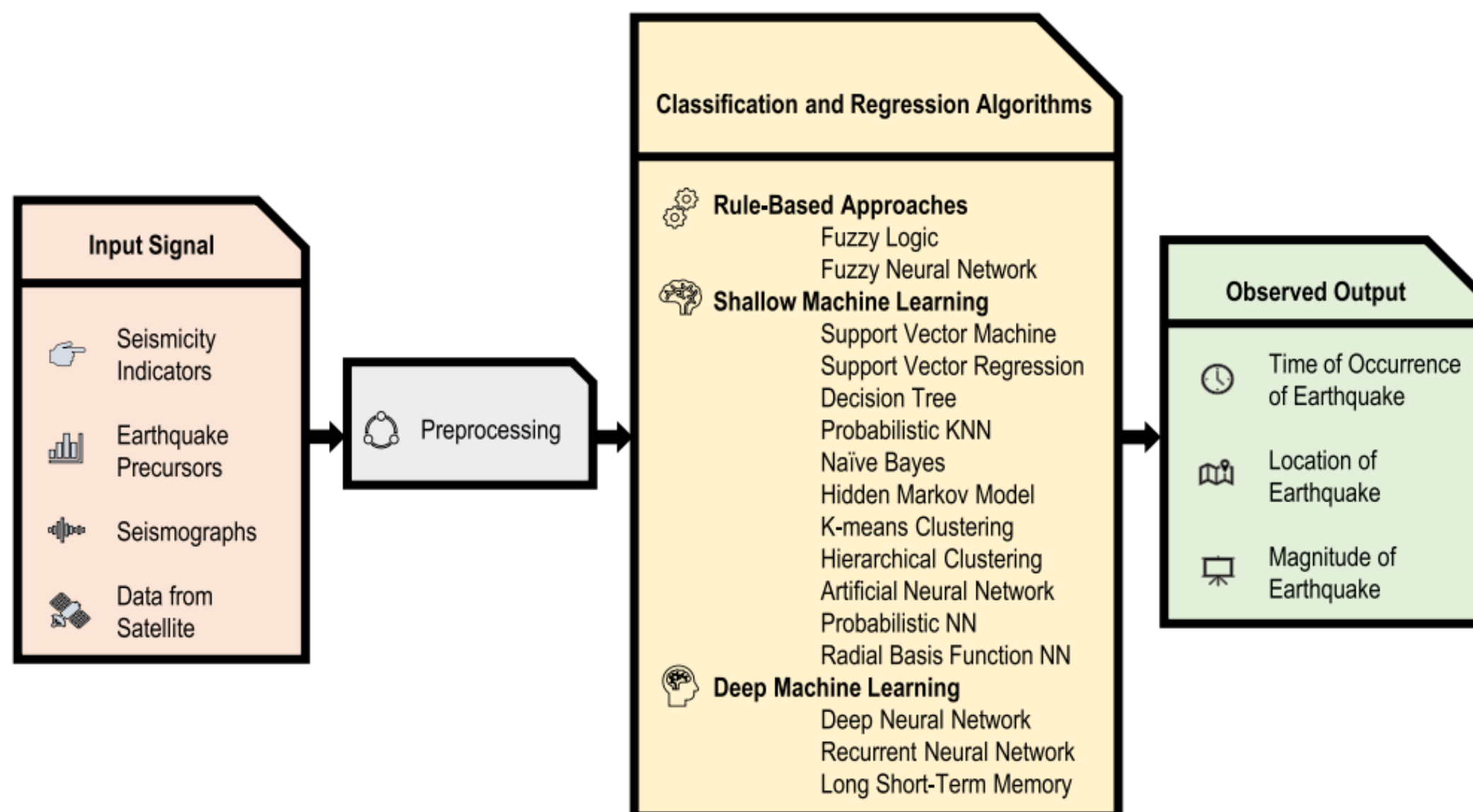


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HOME WORK #1

Prepare a 1-page slide or poster to present a specific AI/ML/DL application or system

- Have some details
- Mention/emphasize the role of AI/ML/DL

Artificial Intelligence in Predicting Earthquakes



- The system called ShakeAlert uses artificial intelligence (AI) to predict how the ground will move during a temblor and can give several seconds advance notice that the shaking is coming.
- The new system in development is called DeepShake.
- It uses a deep neural network to identify patterns from past earthquakes in order to predict how the shaking from a new quake will travel
- This leads to faster processing and easier generalizability across different earthquake-prone regions.
- Data from past earthquake studies and publications are used to improve the functioning of deep learning algorithms
- The advantage of Deepshake though, is that they automatically incorporate quirks of the site, because they are based on past experiences of shaking in that location

references:

1. <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9218936>
2. <https://www.livescience.com/deep-learning-network-earthquake-shaking.html>