Alzheimer's : A neurological disease affecting memory and cognitive function.

Research: Systematic investigation for new knowledge

groupby(): function ~~help~~ to group and analyze data in Programming.

ADNI: Alzheimer's research initiative Sharing data

On-hot encoding: Categorical data Conversion to binary.

Representation in research: Ensuring diverse Study participants

Recruiting black participants: Inclusion of Black individuals in research.

• **Continous Variable:** Infinite Value range

• **Discrete variable:** Specific, distinct Values