Prediction process

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Dataset for model progressive or non progressive

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Column:
    - Velocity: Average speed of the sperm (pixels/second).
    - Straightness Ratio: Ratio of straight-line displacement to total path
length.
    - Angular Displacement: Change in direction over time (useful for detecting
circular motion).
    - Linearity: Measures how straight the trajectory is (e.g., using linear
regression).
    - Curvature: Measures how curved the trajectory is.
    - Amplitude of Lateral Head Displacement (ALH): Side-to-side movement of the
sperm head.
    - Beat Cross Frequency (BCF): Frequency of the sperm head crossing its average
path.
    - Total Distance Traveled: Total path length of the sperm.
    - Displacement: Straight-line distance from the start to the end point.
    - Time Elapsed: Total time of the trajectory.
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