3. Calculating the Counts per Threshold

At 0.2 (The "Low Bar")

I asked: *"How many penguins have a score of 0.2 or higher?"*

- **Males:** Most males (52 out of 54) are at least 20% likely to be male. So, **TP = 52**. (The other 2 are **FN**).

- **Females:** Because the bar is so low, even "feminine" penguins with a slight male-ish trait (a 25% score) get caught. I estimated 30 females would cross this low bar. So, **FP = 30**. (The other 9 are **TN**).

At 0.5 (The "Fair Bar")

I asked: *"How many penguins have a score of 0.5 or higher?"*

- **Males:** Some males are "ambiguous" (scored 0.3 or 0.4). I estimated 45 would stay above 0.5. So, **TP = 45**.

- **Females:** Most females should score below 0.5. I estimated only 8 "outlier" females would score high. So, **FP = 8**.

At 0.8 (The "High Bar")

I asked: *"How many penguins is the model 80% sure about?"*

- **Males:** Only the "most masculine" penguins hit this. I estimated 25. So, **TP = 25**. (The other 29 males are now **FN**).

Ask Gemini 3

\+ ⚙ Tools

Fast ⌄ 🎤

Gemini is AI and can make mistakes.