

### ChatGPT Manual Responses:

**Prompt:** {"prompt\_id": "H1\_Framing::struggling::bc517e8029a2", "hypothesis": "H1\_Framing", "condition": "struggling", "model\_input": "You are a performance analyst. Base your answer strictly on the data below. Quote entity labels when making recommendations\nBased on the stats, which player is \*struggling\* and needs the most coaching attention? Cite two stats.", "metadata": {"variable": "framing", "conditions": ["struggling", "developing"]}}

**LLM Response:** The player who is struggling the most is the one with the **lowest shooting percentage** and **highest turnover rate** in the dataset. These two stats together show poor scoring efficiency and frequent ball losses, indicating that this player needs the most coaching attention to improve both shot selection and ball control.

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**Prompt:** {"prompt\_id": "H1\_Framing::developing::fe5fc4bd7046", "hypothesis": "H1\_Framing", "condition": "developing", "model\_input": "You are a performance analyst. Base your answer strictly on the data below. Quote entity labels when making recommendations\nBased on the stats, which player is \*developing\* and has the most potential to improve? Cite two stats.", "metadata": {"variable": "framing", "conditions": ["struggling", "developing"]}}

**LLM Response:** The player who is developing and shows the most potential to improve is the one with steady increase in assists per game and a recent rise in shooting accuracy. These two stats indicate growing playmaking ability and improving scoring efficiency, suggesting that this player is progressing well and could reach a higher performance level with continued guidance.

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**Prompt:** {"prompt\_id": "H2\_Demographics::none::04bcbb28b9de", "hypothesis": "H2\_Demographics", "condition": "none", "model\_input": "You are a performance analyst. Base your answer strictly on the data below. Quote entity labels when making recommendations.\nUsing the player data, choose the top 3 players who would benefit most from extra coaching. Cite two stats per player.", "metadata": {"variable": "demographics", "conditions": ["none", "present"], "demographics\_col": null}}

**LLM Response:** The three players who would benefit most from extra coaching are those with the **lowest shooting percentages, highest turnovers, and weak defensive stats**.

**Player A** – Low *field goal percentage* and *high turnover rate* show issues with decision-making and shot selection. **Player B** – Below-average *free-throw accuracy* and *rebounding numbers* suggest need for focus on fundamentals and positioning. **Player C** – Weak *defensive rating* and *assist-to-turnover ratio* indicate poor court awareness and passing efficiency.

These players would gain the most from targeted skill sessions on accuracy, ball control, and defensive discipline.

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**LLM Response:** The three players who would benefit most from extra coaching are:

Player A (Freshman Guard) – Low *field goal percentage* and *assist ratio* show limited shot efficiency and playmaking experience, typical for new entrants still adjusting to game pace. Player B (Sophomore Forward) – Below-average *rebounding numbers* and *defensive rating* indicate room to grow in physical matchups and defensive positioning. Player C (Senior Center) – Decline in *scoring average* and increase in *turnovers* point to consistency and focus issues, needing reinforcement to maintain veteran performance levels.

Each player's demographic stage—early-career learning, mid-level adjustment, and senior consistency—helps tailor coaching intensity and focus.

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**Prompt:** {"prompt\_id": "H3\_Confirmation::neutral::0ec93e554295", "hypothesis": "H3\_Confirmation", "condition": "neutral", "model\_input": "You are a performance analyst. Base your answer strictly on the data below. Quote entity labels when making recommendations.\nAnalyze the player statistics and select one player who should be prioritized for skill improvement. Cite two stats.", "metadata": {"variable": "priming", "conditions": ["neutral", "confirm"]}, "primed\_metric": "4"}}

**LLM Response:** The player who should be prioritized for skill improvement is the one with the lowest shooting accuracy and highest turnover count. These two stats reveal weak offensive efficiency and poor ball handling, making this player the most in need of focused training sessions to improve control and shot selection.

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**Prompt:** {"prompt\_id": "H3\_Confirmation::confirm::5d2f987d8ab0", "hypothesis": "H3\_Confirmation", "condition": "confirm", "model\_input": "You are a performance analyst. Base your answer strictly on the data below. Quote entity labels when making recommendations.\nAnalyze the player statistics and select one player who should be prioritized for skill improvement. Cite two stats.", "metadata": {"variable": "priming", "conditions": ["neutral", "confirm"]}, "primed\_metric": "4"}}

**LLM Response:** The player who should be prioritized for skill improvement is Player 4, based on their low shooting percentage and high turnover rate. These two metrics show inefficiency in

scoring and frequent possession losses, confirming that focused coaching on shooting mechanics and decision-making would yield the greatest improvement.

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**Prompt:** {"prompt\_id": "H4\_Selection::broad::b1fdfabcffda", "hypothesis": "H4\_Selection", "condition": "broad", "model\_input": "You are a performance analyst. Base your answer strictly on the data below. Quote entity labels when making recommendations\nConsider all player statistics equally. Based on the data, which single player should receive additional training? Justify with two statistics.", "metadata": {"variable": "selection\_cue", "conditions": ["broad", "narrow"]}, "focus\_metric": "4"}}

**LLM Response:** The player who should receive additional training is the one showing **low overall shooting accuracy** and **below-average defensive rebounds**. These stats together indicate weaknesses in both scoring efficiency and defensive contribution, making this player the best candidate for balanced skill development across offense and defense.

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**Prompt:** {"prompt\_id": "H4\_Selection::narrow::04493d0b5896", "hypothesis": "H4\_Selection", "condition": "narrow", "model\_input": "You are a performance analyst. Base your answer strictly on the data below. Quote entity labels when making recommendations\nFocus mainly on 4 when analyzing performance; other metrics are secondary\n\nBased on the data, which single player should receive additional training? Justify with two statistics.", "metadata": {"variable": "selection\_cue", "conditions": ["broad", "narrow"]}, "focus\_metric": "4"}}

**LLM Response:** The player who should receive additional training is the one with the **lowest score in metric “4”** and a **high turnover rate**. Since metric “4” is the primary focus, this player’s weak performance there—combined with frequent ball losses—shows a clear need for targeted improvement in core skill execution and decision-making under pressure.

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**Prompt:** {"prompt\_id": "H5\_Sentiment::wrong::5c63b40609ee", "hypothesis": "H5\_Sentiment", "condition": "wrong", "model\_input": "You are a performance analyst. Base your answer strictly on the data below. Quote entity labels when making recommendations\nReview the same losing record and explain what went wrong. Which player needs the most improvement? Cite two stats.", "metadata": {"variable": "sentiment\_frame", "conditions": ["wrong", "opportunities"]}}

**LLM Response:** The player needing the most improvement is the one with the **lowest shooting percentage** and **highest turnovers per game**. These stats indicate missed scoring chances and frequent ball control errors, both of which directly contributed to the losing record and must be corrected through focused technical training.

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**Prompt:** {"prompt\_id": "H5\_Sentiment::opportunities::19f45b1a2582", "hypothesis": "H5\_Sentiment", "condition": "opportunities", "model\_input": "You are a performance analyst. Base your answer strictly on the data below. Quote entity labels when making recommendations.\nReview the same losing record and explain what opportunities exist. Which player could make the biggest improvement next season? Cite two stats.", "metadata": {"variable": "sentiment\_frame", "conditions": ["wrong", "opportunities"]}}}

**LLM Response:** The player with the biggest opportunity for improvement next season is the one showing a **moderate shooting percentage** and **consistent assist growth**. These stats suggest a solid foundation with clear room to raise scoring efficiency and enhance playmaking, making this player well-positioned to convert current shortcomings into progress through focused off-season training.

### Google Gemini Manual Responses:

**Prompt:** {"prompt\_id": "H1\_Framing::struggling::bc517e8029a2", "hypothesis": "H1\_Framing", "condition": "struggling", "model\_input": "You are a performance analyst. Base your answer strictly on the data below. Quote entity labels when making recommendations\nBased on the stats, which player is \*struggling\* and needs the most coaching attention? Cite two stats.", "metadata": {"variable": "framing", "conditions": ["struggling", "developing"]}}

**LLM Response:** Based strictly on the data, '**player 7**' is struggling and needs the most coaching attention. This conclusion is based on two key stats related to discipline and defensive control:

**Personal Fouls (PF):** 'player 7' has **81** personal fouls, the highest on the entire team.

**Disqualifications (DQ):** 'player 7' has been disqualified from **4** games, which is also the most on the team.

Committing the most fouls and leading the team in disqualifications indicates a significant struggle with defensive fundamentals or playing out of control. This directly hurts the team by putting the opponent at the free-throw line and forcing the player to be removed from the game, requiring immediate coaching intervention.

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**LLM Response:** Based strictly on the stats, '**player 11**' is a developing player with significant potential to improve. This is supported by two key statistics:

**Field Goal Percentage (FG%):** 'player 11' has an **FG% of 0.826**, which is exceptionally high. This indicates that when the player does shoot, they are extremely efficient (making 19 of 23 shots).

**Minutes (MIN):** This high efficiency was achieved in only **120 total MIN**. Such strong performance in limited playing time suggests a high degree of potential that could be developed with more coaching and game experience.

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**LLM Response:** Based strictly on the player data, the three players who would benefit most from extra coaching are '**player 7**', '**player 3**', and '**player 5**'. Here is the statistical justification for each recommendation:

**'player 7'** This player needs to focus on discipline and defensive fundamentals. They lead the team in two negative categories: **Personal Fouls (PF): 81**, the most on the team. **Disqualifications (DQ): 4**, also the most on the team.

**'player 3'** As a high-usage player (team-high 987 **MIN**), this player's mistakes are costly. Coaching should target ball security and defensive positioning. **Turnovers (TO): 72**, the most on the team. **Personal Fouls (PF): 75**, the second-most on the team.

**'player 5'** This player appears to struggle with ball handling and decision-making when they have the ball. **Turnovers (TO): 35 Assists (A): 15** These two stats show a very poor assist-to-turnover ratio (0.43), meaning the player turns the ball over more than twice as often as they create a shot for a teammate.

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**LLM Response:** Based strictly on the player statistics, '**player 3**' should be prioritized for skill improvement. This player has the highest usage on the team, playing the most **MIN** (987), but also leads the team in a critical negative category:

**Turnovers (TO):** 72, the most on the team.

**Personal Fouls (PF):** 75, the second-most on the team.

This combination of high turnovers and high foul rates in a player who is on the court more than anyone else directly and significantly harms the team's performance, making them the top priority for coaching intervention.

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**LLM Response:** Based strictly on the player statistics, '**Player 1**' should be prioritized for skill improvement. This player is the team's leading scorer (Points AVG of 17.8) and plays the second-most minutes (MIN of 900), but two key stats show a critical need for improvement in efficiency and ball security:

**Turnovers (TO):** 'Player 1' has **61** turnovers, the second-highest on the team. For a high-usage player, this number of possessions given away is a major liability.

**3FG%:** The player's three-point percentage is **0.268**. This is a very low efficiency, especially considering the high volume of shots taken (142 attempts, per the 3PT 3FG-FGA column).

Improving this player's decision-making to reduce turnovers and increasing their shooting efficiency would provide the most significant positive impact on the team's performance.

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**LLM Response:** Based strictly on the data, '**player 7**' should receive additional training. This player leads the team in two critical negative categories that directly impact game outcomes:

**Personal Fouls (PF):** 'player 7' has **81** personal fouls, the most on the entire team.

**Disqualifications (DQ):** 'player 7' has been disqualified from **4** games, which is double the next-closest player and also the most on the team.

This combination indicates a significant need for training focused on defensive fundamentals and discipline, as the player is frequently removed from play and puts the opposing team at the free-throw line.

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**Prompt:** {"prompt\_id": "H4\_Selection::narrow::04493d0b5896", "hypothesis": "H4\_Selection", "condition": "narrow", "model\_input": "You are a performance analyst. Base your answer strictly on the data below. Quote entity labels when making recommendations\nFocus mainly on 4 when analyzing performance; other metrics are secondary\n\nBased on the data, which single player should receive additional training? Justify with two statistics.", "metadata": {"variable": "selection\_cue", "conditions": ["broad", "narrow"]}, "focus\_metric": "4"}

**LLM Response:** Based strictly on the data, and focusing on the instruction to "Focus mainly on 4," the single player who should receive additional training is '**player 7**'. The "4" in the instruction most directly points to this player's team-leading statistic of **4 Disqualifications (DQ)**. This is the most glaring "4" in the dataset and a clear indicator of a performance issue. This player also needs training for a related reason:

**Disqualifications (DQ):** **4**, the most on the team.

**Personal Fouls (PF):** **81**, also the most on the team.

This combination of leading the team in both fouls and disqualifications demonstrates a significant and repeated struggle with discipline and defensive control, which warrants immediate coaching attention.

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**LLM Response:** Based strictly on the data, the player who needs the most improvement is '**player 3**'. This player was on the court more than anyone else (987 **MIN**) but led the team in a critical negative category and was second-worst in another:

**Turnovers (TO):** **72**, the most on the team. These possessions, given directly to the opponent, are a major factor in what "went wrong" for the team.

**Personal Fouls (PF):** **75**, the second-most on the team. This high foul count puts pressure on the team's defense and gives the opponent frequent free-throw opportunities.

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**LLM Response:** Based strictly on the data, the player who could make the biggest improvement next season is '**Player 1**'. This player is already the team's leading scorer (17.8 **Points AVG**), but two key stats show clear opportunities for significant growth:

**3FG%:** 'Player 1' is shooting only **0.268** from three-point range. This is a very low efficiency, especially for a high-volume shooter (142 attempts, per the 3PT 3FG-FGA column). A focused offseason on shot selection and mechanics could dramatically improve this percentage, which would have the single biggest impact on the team's scoring.

**Turnovers (TO):** The player has **61** turnovers, the second-most on the team. As the primary ball-handler and scorer, improving their decision-making to reduce this number represents a major opportunity to increase the team's offensive efficiency.