

# Scouting Dossier: India's New Batting Core for the England Test Series

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**Analysis Type:** Contextual Performance Scouting & Monte Carlo Simulation

**Scope:** Test Batting Assessment for England Tour

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## Overview

With India's senior batting core (Virat Kohli, Rohit Sharma) absent, the upcoming Test tour of England marks a definitive transition. This report evaluates the readiness and projected output of India's emerging Test batters in English conditions—markedly seam-friendly and tactically unforgiving.

## Batters Covered

- Shubman Gill
- Yashasvi Jaiswal
- KL Rahul
- Rishabh Pant
- Karun Nair
- Nitish Kumar Reddy (*dark horse*)

## Methodology

### 1. Contextual Region-Based Analysis

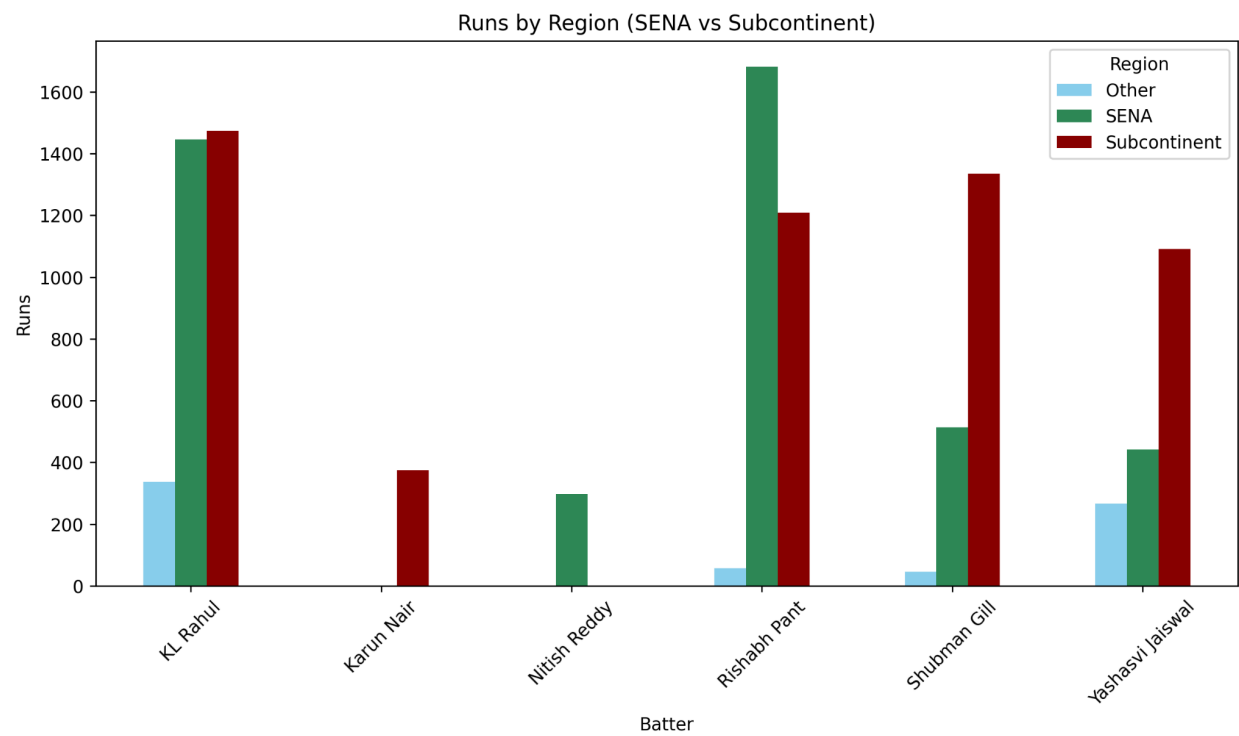
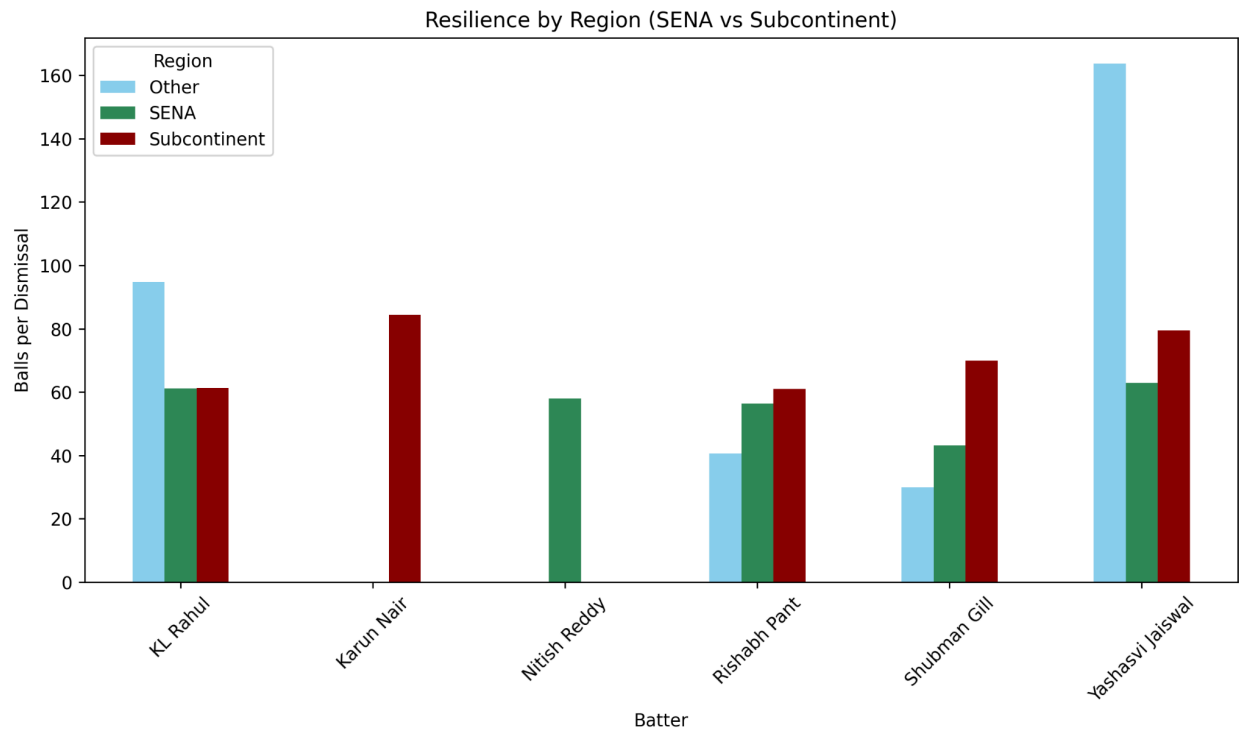
Each player's Test record was parsed by geography:

- **SENA** – South Africa, England, New Zealand, Australia
- **Subcontinent** – India, Sri Lanka, Bangladesh, Pakistan
- **Other** – UAE, West Indies, Zimbabwe, etc.

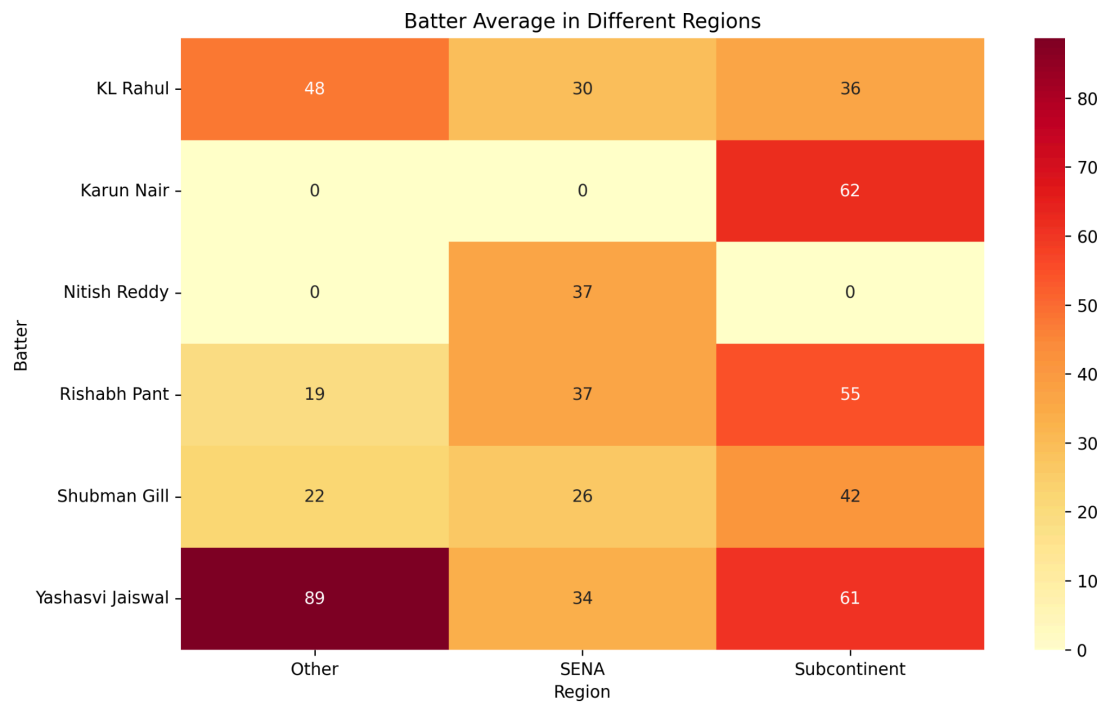
Key metrics included:

- Aggregate Runs
- Batting Average
- Strike Rate
- Balls Faced per Dismissal (Resilience Index)
- 100s / 50s

→ **Visualisation:** *Grouped bar charts* for runs and balls per dismissal across regions.



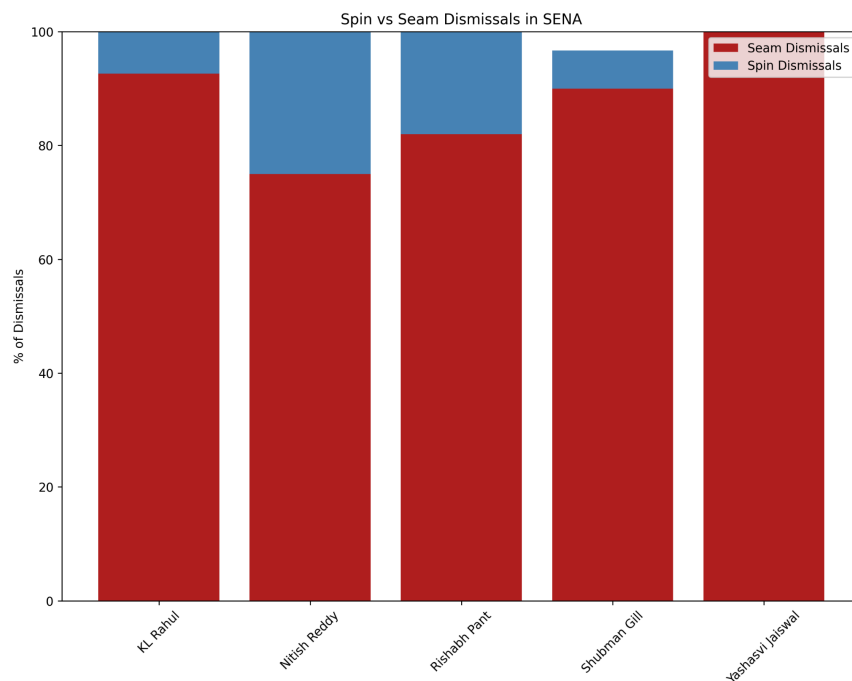
→ **Visualisation:** *Heatmap* for batter average across regions.



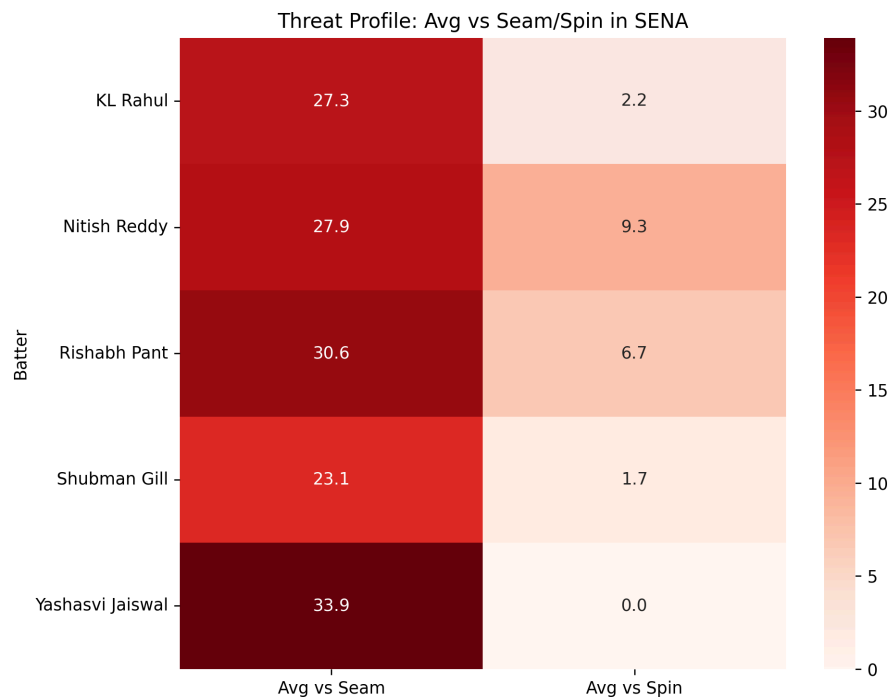
## 2. Spin vs Seam Threat Profiling

We evaluated seam vs spin dismissal % for each player in SENA conditions—highlighting their tactical vulnerabilities.

→ **Visualisation:** *Stacked bar chart* showing seam/spin dismissal split.



→ **Visualisation:** *Heatmap* mapping average performance vs seam/spin.



### 3. Monte Carlo Simulations: Expected Series Output

To estimate each batter's projected performance over a 5-Test (10-innings) series in England, we ran **1,000 innings-wise simulations** using:

- A **log-normal distribution** for balls faced (to capture skew)
- A **normal distribution** for strike rate
- **Contextual seam-threat penalties** based on historical dismissal profiles

Each simulation estimated:

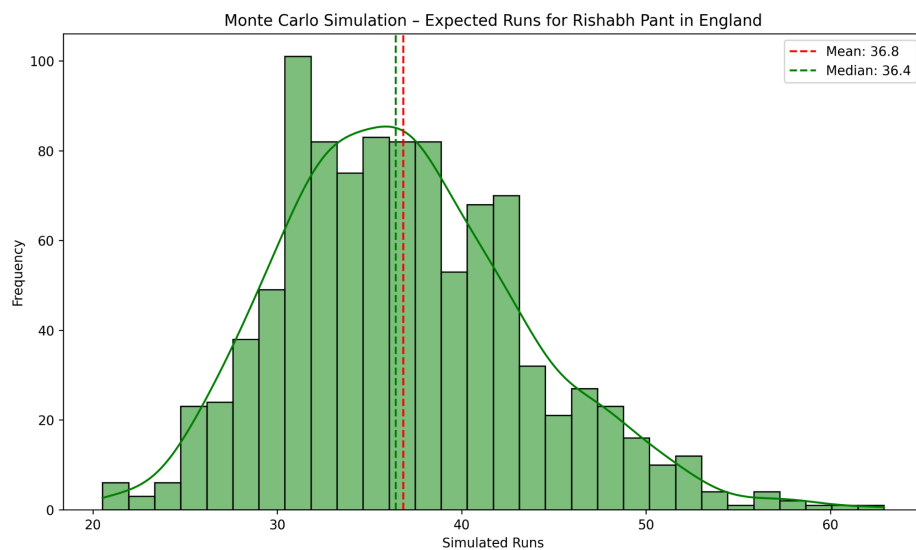
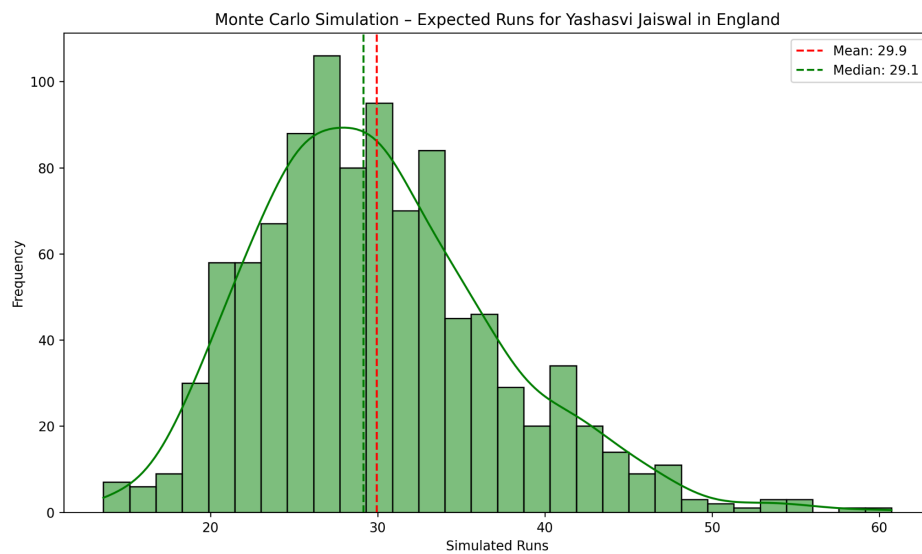
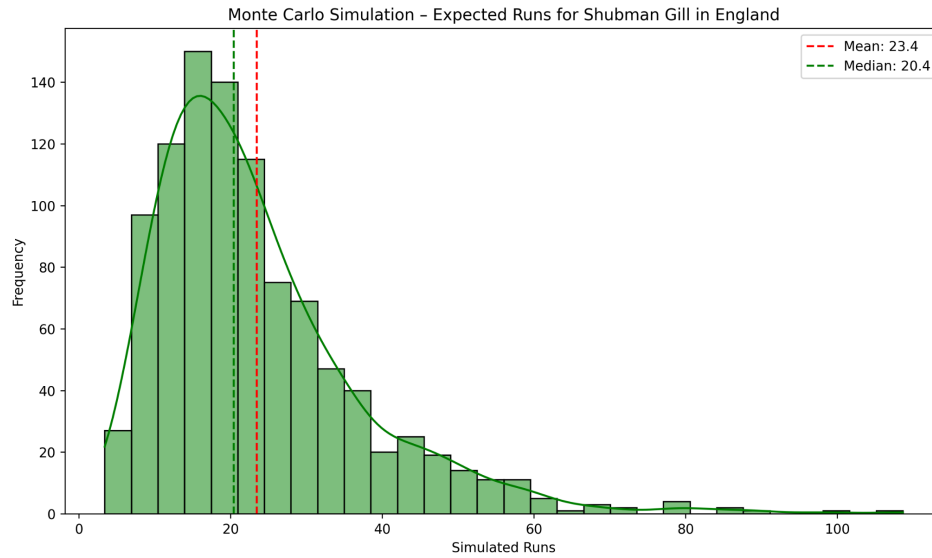
$$\text{Score} = (\text{Balls Faced} \times \text{Adjusted Strike Rate}) / 100$$

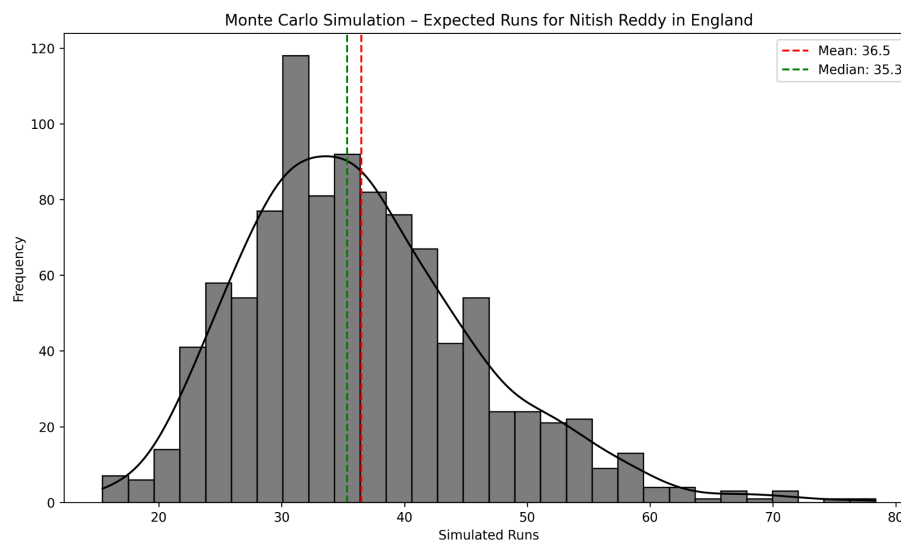
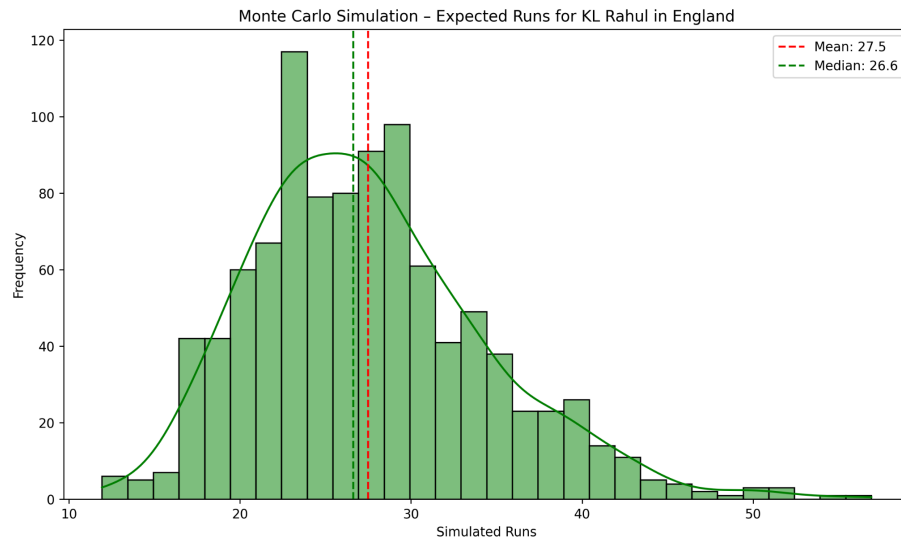
### 4. Seam Threat Adjustment

Given England's expected pace-heavy attack (Woakes, Carse, Tongue, Stokes), we factored in a **strike rate penalty** based on each batter's historical seam-dismissal profile.

- Gill: 90% seam dismissals → 5% SR penalty
- Jaiswal: 100% seam dismissals → 10% SR penalty
- Pant, Nitish Reddy: No penalty (proven record)

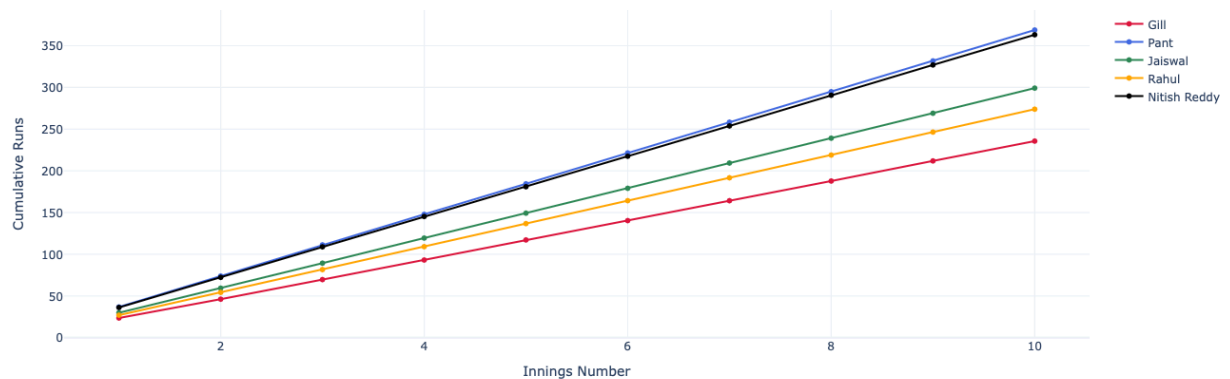
→ **Visualisation:** *Distribution plots* for each player's simulated innings scores





→ **Visualisation:** *Line chart* projecting cumulative runs over the full Test series

Cumulative Expected Runs Across 10 Innings (Monte Carlo Mean)



## Key Tactical Takeaways

- **Gill:** Technically compact and capable of building long innings, but highly susceptible to seam: 90% of his dismissals in SENA have come against pace. Needs to address movement off the pitch and stay at the crease for longer. Captaincy might allow him to step up more.
- **Jaiswal:** Aggressive and dominant against spin, but currently displays complete vulnerability to seam (100% SENA dismissals to pace). May require adjustment in shot selection and backfoot technique. However, with a great IPL season and a promising recent record, Jaiswal might do much better than the stats say.
- **Pant:** Brings unorthodox flair, but his consistency in SENA (especially against pace) suggests he may be India's best bet in terms of counter-attacking resilience. Could be the x-factor.
- **Rahul:** The most experienced of the lot, but remains inconsistent—particularly poor average vs seam in SENA. May be suited to opening but must manage loose drives outside off.
- **Nitish Reddy:** Very limited sample size, but early data points to technical adaptability and temperament. A high-variance but high-upside pick who brings with him experience from Australia and may handle English conditions better than expected.

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This scouting dossier is designed to provide actionable insight into the likely performance profiles of India's new-generation batters, incorporating historical patterns, opposition-specific threats, and simulated projections to guide tactical planning.

For more context, data, or to explore code and visual workflows, refer to the project repository.

**GitHub Repo:** [https://github.com/aadit1412/India\\_vs\\_England\\_2025](https://github.com/aadit1412/India_vs_England_2025)

**Full Notebook:**

<https://colab.research.google.com/drive/14dFCDaAAKK-8VodsA3CGa4j7DZNkTMBu?usp=sharing>

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