

# Edge Caching Playbook - India vs Pakistan Cricket Final

## What's happening:

- Live HD match streams for millions of fans
- Premium HD charges 1.45-1.95 credits
- Quick highlight clips stay free
- Stadium cameras, control rooms, and global fan zones demand extra bandwidth

## How to stay ahead:

1. Use bundled dataset `edge_caching_case.json`
2. Add extra PDFs (press notes, sponsor decks) into `data/`
3. Set `GROQ_API_KEY` for Groq Llama 3.3 demand predictions
4. Enable RAG-GenAI, pick cricket docs, run at least 6 optimisation rounds
5. Keep  $\lambda \leq 0.12$  and  $\alpha \geq 0.8$  so Alg-1 wins
6. Boost edges 0-3 (stadium), 4-7 (metro HQ), 8-11 (global fans)
7. Premium feeds < 1.95 credits; free clips stay free

## Checks before sharing:

- Alg-1 utility > Alg-2 > Alg-3
- Jain fairness highest and latency lowest for Alg-1
- If docs or API are missing, label run as synthetic fallback