

## Disney plus Hotstar Data Engineer Interview Guide – Experienced 3+

Hotstar is a leading streaming platform known for its large-scale data processing and real-time analytics needs. As a Data Engineer (SDE 2) at Hotstar, you will face challenging problems involving big data technologies, system design, and optimization strategies. Here is a detailed breakdown of interview experiences and sample questions to guide your preparation.

### Common Interview Rounds

1. **Coding Round:** Focus on data structures, algorithms, and problem-solving.
2. **Low-Level Design (LLD):** Designing reusable components and modular systems.
3. **High-Level Design (HLD):** Architecting scalable, distributed data systems.
4. **Coding/Problem-Solving:** Additional complex coding problems.
5. **Hiring Manager (HM) Round:** Behavioral and scenario-based discussions.

### Detailed Interview Preparation

#### 1. Coding Round

**Key Focus Areas:** Array manipulation, dynamic programming, and tree traversal.

**Sample Questions:**

1. Solve [Longest Consecutive Sequence](#).
2. Given an n-ary tree, write code to flatten it and store the output in a list.
3. Implement a function to check if a given string has balanced parentheses using a stack.
4. Design an algorithm to merge k sorted lists of video streaming data.
5. Write a function to remove invalid parentheses from a string.

#### 2. Low-Level Design (LLD)

**Key Focus Areas:** Object-oriented design, interface design, and modular architecture.

**Sample Scenario:**

1. Develop a **generic user profile system** for Hotstar that:
  - Accepts inputs from various teams, such as a propensity score from personalization or a marketing channel.
  - Consolidates inputs into a unified user profile.
  - Supports daily updates with aggregation methods like min, max, last, and first.

2. Explain how you would implement a caching mechanism for frequently accessed video metadata.

### 3. High-Level Design (HLD)

**Key Focus Areas:** Scalability, fault tolerance, and distributed systems.

**Sample Scenario:**

1. Design a **threaded commenting system** similar to YouTube for Hotstar.
2. Propose an architecture to manage real-time analytics for user interactions during live sports events.
3. How would you design a system to support personalized recommendations at scale?
4. Describe a strategy for implementing a real-time content delivery monitoring system.
5. Architect a solution to handle notifications for millions of users with varying preferences.

### 4. Coding/Problem-Solving Round

**Key Focus Areas:** Advanced coding challenges and optimization.

**Sample Questions:**

1. Solve [Minimum Remove to Make Valid Parentheses](#).
2. Write a function to detect anomalies in streaming data using a sliding window.
3. Implement an algorithm to find the longest common prefix among an array of strings.
4. Optimize a function to calculate moving averages of user engagement.
5. Write a solution to efficiently search a rotated sorted array.

### 5. Hiring Manager (HM) Round

**Key Focus Areas:** Behavioral insights, decision-making, and team dynamics.

**Sample Questions:**

1. Share a time when you explained a technical concept to a non-technical stakeholder.
2. Describe a challenging data-related issue you faced in production and how you resolved it.
3. Discuss a project where you significantly improved the performance of a data pipeline.
4. How do you prioritize tasks when handling multiple projects with tight deadlines?
5. Explain how you stay updated with evolving data engineering technologies.

### Additional Practice Questions

1. How would you design a logging framework to track errors across multiple services?
2. Compare Kafka and RabbitMQ for real-time message processing in a streaming platform.
3. Explain the benefits of using columnar storage formats like Parquet or ORC.
4. What techniques would you use to ensure data consistency in a distributed database?
5. Describe how partitioning helps improve query performance in a large dataset.
6. How would you build a monitoring dashboard for ETL job failures?
7. Implement a rate-limiter to control API requests per user.
8. Discuss strategies for handling schema evolution in data warehouses.

### Preparation Areas to Focus On

1. **Coding:** Leetcode medium to hard-level problems.
2. **Low-Level Design:** Reusable design patterns and clean coding principles.
3. **High-Level Design:** Scalable architectures and trade-offs.
4. **Behavioral Skills:** Communication, collaboration, and problem ownership.

By mastering these areas and understanding common patterns, you'll be ready to impress during your Hotstar Data Engineer interview. Best of luck!

### Glassdoor Hotstar Review –

[https://www.glassdoor.com.au/Reviews/Disney-Hotstar-work-culture-Reviews-EI\\_IE1465942.0,14\\_KH15,27.htm](https://www.glassdoor.com.au/Reviews/Disney-Hotstar-work-culture-Reviews-EI_IE1465942.0,14_KH15,27.htm)

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