

## Expedia Data Engineer Interview Guide – Experienced 5+

### Round 1: Technical (Data Pipeline Design)

#### Focus Areas:

##### 1. Past Experience:

Resume-based questions on projects and responsibilities.

##### 2. Real-Time Data Pipeline:

Conceptualization and end-to-end design of a real-time streaming data pipeline.

##### 3. Apache Kafka Deep Dive:

- Offset management, Sync vs. Async commits.
- Partition assignment strategies and Consumer groups.
- Handling backpressure in Kafka streams.

##### 4. Scaling Applications with Docker:

How Docker can be used to scale streaming data applications.

##### 5. CI/CD Deployment:

Discussion on the deployment process for real-time applications using CI/CD pipelines.

### Round 2: Coding

#### Questions:

##### 1. Power of a Number:

- Write code to calculate the power of a given number in minimum time complexity.
- Hint: Solve using recursion combined with dynamic programming to achieve  $O(\log n)$  time complexity.

##### 2. Expression Evaluation:

Given the Infix, Prefix, or Postfix notation of an expression:

- Write the code to compute the final result.
- Hint: This is a Stack-based standard problem.

### Round 3: Technical

#### **Topics Covered:**

1. **Apache Spark:**

- Fundamentals, OOM scenarios and their resolutions.
- Optimization techniques for Spark applications.
- Strategies for optimized joins in Spark.
- Handling data skewness with Key Salting techniques.

2. **Apache Kafka:**

Review of Kafka fundamentals and concepts.

3. **SQL Queries:**

Queries combining Joins and Group By operations.

### Round 4: Hiring Manager Discussion

#### **Key Focus:**

1. **Past Experiences:**

Discussion on resume and projects.

2. **Workplace Scenarios:**

Share good and bad experiences with past employers.

3. **Teamwork & Delivery:**

How to manage tight project delivery timelines in a team environment.

4. **Career Journey:**

1. Why I left last company in just 4 months.
2. Expectations from the next job role.

#### **Glassdoor Expedia Review –**

<https://www.glassdoor.co.in/Reviews/Expedia-Group-Reviews-E9876.htm>

#### **Expedia Careers –**

<https://careers.expediagroup.com/jobs/>

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