

☑ Main Dashboard See Al Query Tune Schedule See Cascading Delays

### Flights with the Biggest Cascading Impact ...

These flights are critical links. A delay to one of them is likely to cause the most downstream disruptions.

|   | flight_id  | centrality_score | airline | op_type | sched_time_x        |
|---|------------|------------------|---------|---------|---------------------|
| 0 | AI256-1368 | 0.0218           | Al      | ARR     | 2025-07-28 12:03:00 |
| 1 | Al135-2676 | 0.0217           | UK      | ARR     | 2025-07-28 12:06:00 |
| 2 | AI494-2202 | 0.0216           | ик      | DEP     | 2025-07-28 12:14:00 |
| 3 | AI460-1483 | 0.0216           | UK      | DEP     | 2025-07-28 12:17:00 |
| 4 | AI373-1121 | 0.0215           | SG      | ARR     | 2025-07-28 12:25:00 |
| 5 | AI950-723  | 0.0214           | UK      | DEP     | 2025-07-28 12:26:00 |
| 6 | AI896-1016 | 0.0214           | 6E      | ARR     | 2025-07-28 12:55:00 |
| 7 | AI653-2753 | 0.0213           | UK      | DEP     | 2025-07-28 13:35:00 |
| 8 | Al415-63   | 0.0213           | 6E      | DEP     | 2025-07-28 13:48:00 |
| 9 | AI174-1203 | 0.0212           | 6E      | DEP     | 2025-07-28 13:57:00 |

#### **Optimized Runway Schedule Gantt Chart**

Optimized Flight Landings and Takeoffs

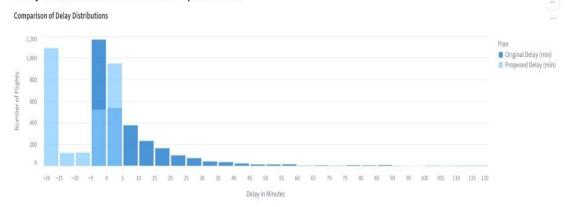


### Top 10 Flights with Greatest Delay Reduction

490 flight\_id Scheduled Time DEP 1525 Al996-1525 2025-07-28 00:14:00 111.7671 140.7671 DEP 103.7232 923 Al788-923 2025-07-25 12:29:00 133.7232 2241 Al341-2241 SG 105.1188 1021 Al884-1021 UK ARR 2025-07-29 13:04:00 120 302 Al563-302 2025-07-25 00:31:00 100.4071 126.4071 36 Al956-36 2025-07-26 15:51:00 116.0403 116.0403 DEP 555 Al492-555 2025-07-26 23:22:00 87,3261 114.3261 1337 Al388-1337 2025-07-30 01:12:00

# **Optimized Schedule Overview**

### Delay Distribution: Before vs. After Optimization



## Query Flight Data with Natural Language

