

IndiGo Flight Trip Analysis Report

Project Overview

Tool Used: Microsoft Excel

Domain: Indigo Flight Trip Analysis

Duration: 4 Days

Objective: To analyse the flight trips between

- **Bangalore (BLR) → Chennai (MSS)**
- **Chennai (MSS) → Bangalore (BLR)**

covering **Passenger Seat Occupancy, Total Earnings, Flight Operational Cost, and Profit.**

Bangalore (BLR) → Chennai (MSS)

The trip details were analysed in two main parts:

1. **Day-wise Trip Analysis**
 2. **Flight-wise Trip Analysis**
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Day-wise Trip Analysis

Analysis:

- 9 daily flights (1 hr 5 min) operated throughout 2024, totalling 3,294 trips.
- Total Passengers: 5.9L
- Earnings: ₹228 Cr
- Operational Cost: ₹143 Cr (63%)
- Profit: ₹85 Cr (37%)

Daily Averages:

- Passenger Load: 88.6%
- Earnings: ₹62.4L
- Cost: ₹39.3L
- Profit: ₹23.1L

Trends & Insights:

- **Weekend Impact:** Friday–Sunday contributed 44% of total profit.
- **Weekly Trend:** Weeks 2–4 generated 70% of total profit.
- **Monthly Trend:** October, April, and January were the most profitable months (within 0.25% variation).

Conclusion:

- The year 2024 was highly profitable with consistent monthly performance.
- The BLR–MSS route alone contributed 37% of annual profit.
- Increasing flight frequency and leveraging weekend/holiday demand can further boost revenue.

Flight-wise Trip Analysis

Aircraft Types Operated:

- A320neo (180 Seats)
- A321neo (220 Seats)

A320neo (180 Seats) – Aircraft Analysis

Flight No.	Schedule	Total Passengers	Earnings (₹ Cr)	Cost (₹ Cr)	Profit (₹ Cr)	Load (%)	Profit Margin
6E 575	05:25–06:30 (Midnight)	54K	19.22	14.79	4.43	82%	23%
6E 506	14:40–15:45 (Afternoon)	49K	19.17	14.79	4.38	76%	23%
6E 6012	16:45–17:55 (Evening)	60K	21.56	14.79	6.78	92%	32%
6E 6146	22:30–23:35 (Night)	57K	22.34	14.79	7.55	88%	34%

Insights:

- A320neo flights mainly operate during leisure hours (midnight, afternoon, and late evening).
- These flights contribute 28% of total profit, often serving connecting passengers.

A321neo (220 Seats) – Aircraft Analysis

Flight No.	Schedule	Total Passengers	Earnings (₹ Cr)	Cost (₹ Cr)	Profit (₹ Cr)	Load (%)	Profit Margin
6E 6269	06:45–07:50 (Morning)	73K	26.28	16.95	9.33	92%	35%
6E 904	09:25–10:25 (Morning)	73K	33.10	16.95	16.14	92%	49%
6E 356	17:45–18:50 (Evening)	74K	26.39	16.95	9.44	92%	36%
6E 6017	18:40–19:40 (Evening)	74K	33.15	16.95	16.20	92%	49%
6E 6177	21:30–22:30 (Night)	71K	27.23	16.95	10.27	88%	38%

Insights:

- A321neo flights, operating mostly during business hours, deliver 72% of total profit.
- Top-performing flights: 6E 904 (09:25) and 6E 6017 (18:40) show the highest profit margins.
- Adding more flights between 06:45–09:25 (morning) and 18:40–21:30 (evening) could improve profitability.

Chennai (MSS) → Bangalore (BLR)

The trip details were analysed in two main parts:

1. **Day-wise Trip Analysis**
2. **Flight-wise Trip Analysis**

Day-wise Trip Analysis

Analysis:

- 9 daily flights (1 hr 5 min) operated throughout 2024, totalling 3,294 trips.
- Total Passengers: 5.9L

- Earnings: ₹228 Cr
- Operational Cost: ₹143 Cr (63%)
- Profit: ₹84 Cr (37%)

Daily Averages:

- Passenger Load: 88.5%
- Earnings: ₹62.4L
- Cost: ₹39.3L
- Profit: ₹23.1L

Trends & Insights:

- **Weekend Impact:** Friday–Sunday contributed 46% of total profit.
- **Weekly Trend:** Weeks 2–4 generated 69% of total profit.
- **Monthly Trend:** October, April, and January were the top profit months (within 0.25% variation).

Conclusion:

- The MSS–BLR route showed strong profitability and consistent performance across months.
- This route contributed 37% of total annual profit.
- Increasing frequency and leveraging weekend/holiday travel can further improve revenue potential.

Flight-wise Trip Analysis

Aircraft Types Operated:

- A320neo (180 Seats)
- A321neo (220 Seats)

A320neo (180 Seats) – Aircraft Analysis

Flight No.	Schedule	Total Passengers	Earnings (₹ Cr)	Cost (₹ Cr)	Profit (₹ Cr)	Load (%)	Profit Margin
6E 575	05:25–06:30 (Midnight)	54K	19.25	14.79	4.46	82%	23%

Flight No.	Schedule	Total Passengers	Earnings (₹ Cr)	Cost (₹ Cr)	Profit (₹ Cr)	Load (%)	Profit Margin
6E 506	14:40–15:45 (Afternoon)	49K	19.20	14.79	4.42	76%	23%
6E 6012	16:45–17:55 (Evening)	60K	21.54	14.79	6.75	92%	32%
6E 6146	22:30–23:35 (Night)	57K	22.23	14.79	7.44	88%	34%

A321neo (220 Seats) – Aircraft Analysis

Flight No.	Schedule	Total Passengers	Earnings (₹ Cr)	Cost (₹ Cr)	Profit (₹ Cr)	Load (%)	Profit Margin
6E 6269	06:45–07:50 (Morning)	73K	26.26	16.95	9.31	92%	35%
6E 904	09:25–10:25 (Morning)	73K	33.10	16.95	16.14	92%	49%
6E 356	17:45–18:50 (Evening)	74K	26.41	16.95	9.46	92%	36%
6E 6017	18:40–19:40 (Evening)	74K	33.20	16.95	16.25	92%	49%
6E 6177	21:30–22:30 (Night)	71K	27.27	16.95	10.32	88%	38%

Insights:

- The A321neo aircraft again dominated profits, especially during business hours.
- A320neo aircraft served connecting or low-demand hours efficiently.
- Highest-profit flights: 6E 904 (09:25) and 6E 6017 (18:40) maintained consistent performance across both routes.
- Increasing capacity in morning and evening time slots could further enhance profitability.

Final Conclusion

Two aircraft types — A320neo (180 seats) and A321neo (220 seats) — operate on both routes with distinct performance characteristics.

- A320neo flights: Operate mainly during off-peak or leisure hours, contributing 28% of total profit.
- A321neo flights: Operate during high-demand business hours, contributing 72% of total profit.

Overall, 2024 was a highly profitable year for both routes, showing strong load factors, stable revenue trends, and clear growth potential.