

# Can data analysis models identify and explain the factors influencing passenger numbers on the Indian Railway System?

## Introduction:

The Indian railway network (IRN) is one of the largest and busiest railway networks in the world. IRN has a total of 115,000 kilometers (71,457 mi) operating from 8,613 stations across India. Railways in India can rightly be said to bind the country's economic life as well as speed up the growth of industry and agriculture. Railways are still grappling with fundamental operational problems such as travel convenience, time and money optimization and services.

Comparing with the other transport facilities, aviation industry is the main alternative which can overcome the above-mentioned problems. India's Airport Authority (AAI) who owns 125 airports manages close to 78% of domestic passenger traffic and 22% of international passenger traffic (Invest in Transport Sector in India | IIG, 2020).

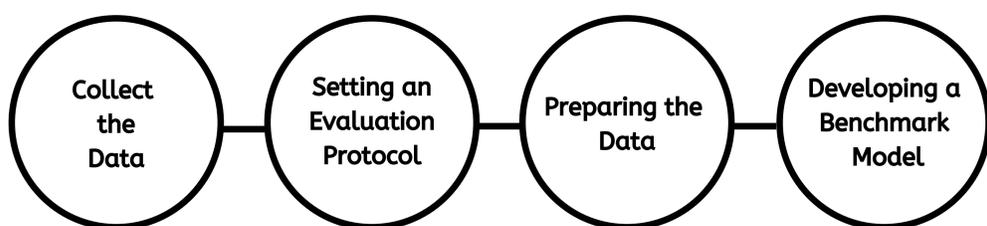


Fig. 1: Research Design (Medium, 2019)

## Conclusion:

- This research will help us to design and develop a data analysis model based on the historic data from the Transport ministry of India.
- This model will determine any trend or factor that exists between Indian passengers traveling through railways and other modes of transportation mainly roadways and airlines.

References:  
 India and India, R., 2020. Road Network In India: National Highways, Projects, Govt Initiatives | IBEF. [online] Ibef.org. Available at: <<https://www.ibef.org/industry/roads-india.aspx>>  
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## OBJECTIVE:

- Establish a predictive model showing how passengers traveling through the Indian railway are getting impacted.
- Their effect on the revenue of the country.
- Research will help the government develop a strategy and budget allocation plan.

## METHODOLOGY:

- Build a data set based on data obtained from previous years for Indian Domestic Aviation and Indian Railways.
- Check and establish the interconnection between any mode of transport.
- Develop a forward-looking predictive model.