# **Literature Review Sources**

Name	Paper Title	Topic	Paper Link
Tharun	Modern data sources and techniques for analysis and forecast of road accidents: A review	Forecast of Road accidents	https://www.sciencedi rect.com/science/artic le/pii/S209575642030 101X#sec1
Tharun	Utilizing Real-time Traffic and Weather Data to Explore Crash Frequency on Urban Motorways: A Cusp Catastrophe Approach	Real time weather and traffic to crash frequency	https://www.sciencedirect.com/science/article/pii/S2352146519304958
Alper	A Survey on Spatio-temporal Data Analytics Systems	Location Data Analytics	https://arxiv.org/pdf/2 103.09883.pdf
Alper	A Review of Data Analytic Applications in Road Traffic Safety. Part 1: Descriptive and Predictive Modeling	Data Analytics for road safety	https://www.mdpi.co m/1424-8220/20/4/11 07
Aditya	A Framework for Scalable Real-Time Anomaly Detection over Voluminous, Geospatial Data Streams	Anomaly detection in geolocation data	http://www.cs.usfca.e du/~mmalensek/publi cations/budgaga2017 framework.pdf
Aditya	Data Integration: The Teenage Years	Data Integration	https://www.cin.ufpe.br/~if696/referencias/integracao/_Data_Integration-The_Teenage_Years.pdf

Matt	MapReduce: Simplified Data Processing on Large Clusters	Introduction of Map Reduce (distributed computing technique)	https://static.googleus ercontent.com/media/ research.google.com/ en//archive/mapreduc e-osdi04.pdf
Matt	The Hadoop Distributed Filesystem	HDFS	https://hadoop.apach e.org/docs/r1.2.1/hdfs design.pdf

Kafka: A Distributed Messaging System for Log Processing

Kafka messaging (streaming communication)

https://github.com/jeffrey-xiao/papers/blob/master/systems/kafka-a-distributed-messaging-systems/com/jeffrey-xiao/papers/blob/master/systems/kafka-a-distributed-messaging-systems/com/jeffrey-xiao/papers/blob/master/systems/kafka-a-distributed-messaging-systems/com/jeffrey-xiao/papers/blob/master/systems/kafka-a-distributed-messaging-systems/com/jeffrey-xiao/papers/blob/master/systems/kafka-a-distributed-messaging-systems/com/jeffrey-xiao/papers/blob/master/s

## **Bonus papers:**

These are more papers that would be interesting to read for the project. Feel free to use one of these for your paper if you can't find an interesting one.

## **General Big Data:**

Big Data: A Survey by V. C. Marzullo and J. D. Kubiatowicz

The Fourth Paradigm: Data-Intensive Scientific Discovery edited by Tony Hey, Stewart Tansley, and Kristin Michele Tolle

Bigtable: A Distributed Storage System for Structured Data by Fay Chang et al.

The Dataflow Model: A Practical Approach to Balancing Correctness, Latency, and Cost in Massive-Scale, Unbounded, Out-of-Order Data Processing by Tyler Akidau et al.

Several interesting looking papers on system design: <a href="https://github.com/jeffrey-xiao/papers/tree/master/systems">https://github.com/jeffrey-xiao/papers/tree/master/systems</a>

#### Weather

Big Data in Meteorology by M. Leutbecher and J. M. Forbes

Challenges and Opportunities of Big Data in the Geosciences by Mohan Ramamurthy et al.

Fatal Errors: The Mortality Value of Accurate Weather Forecasts <a href="https://www2.census.gov/library/working-papers/2023/adrm/ces/CES-WP-23-30.pdf">https://www2.census.gov/library/working-papers/2023/adrm/ces/CES-WP-23-30.pdf</a>

#### Census data

Big Data for Official Statistics by Robert M. Groves and Emilio Zagheni

Big Data and the Well-Being of Women: Opportunities and Challenges by Paula England, et al.

### Big Data and traffic:

Big Data for Intelligent Transportation Systems: A Survey by Anna Maria Vegni and Michele Vegni

Big Data in Traffic Engineering – A New Perspective by Bipul Das and Mourad Ouzzani