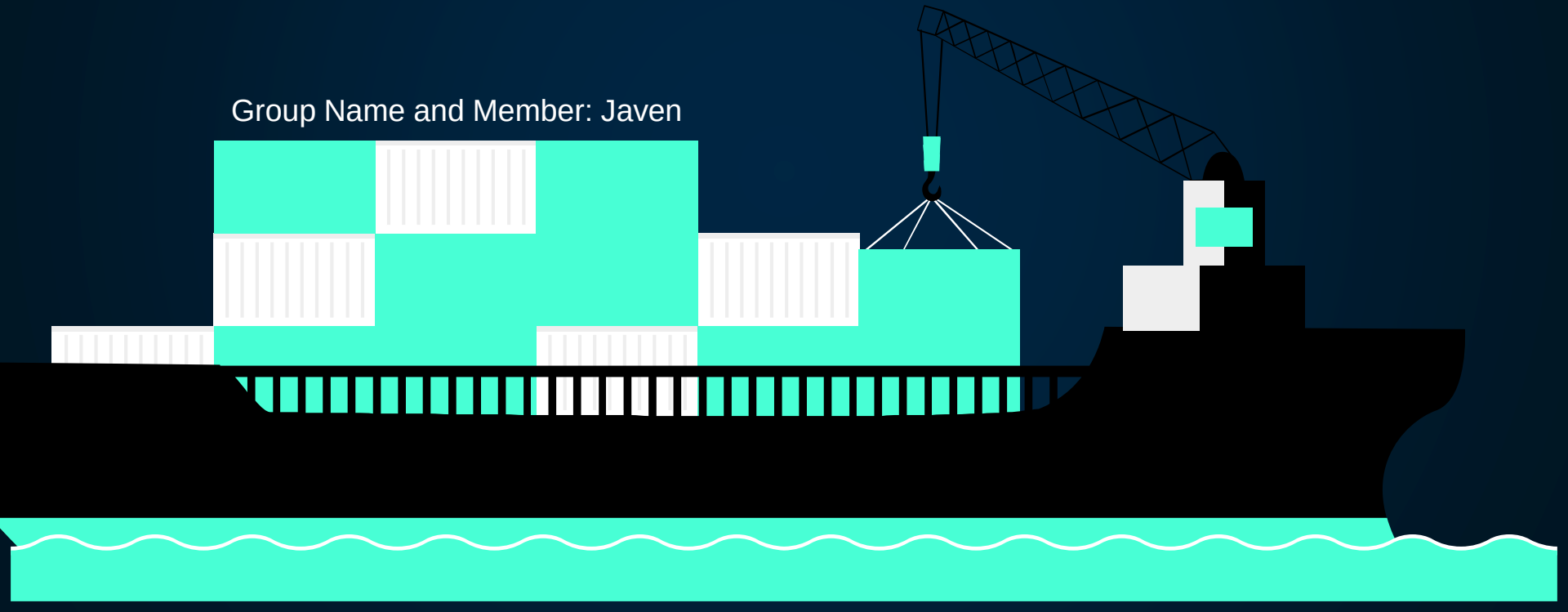
CARGO TRAFFIC PREDICTOR

PSA HACKATHON 2023

</CODE SPRINT>

Group Name and Member: Javen



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Problem Statement

How can digital solutions powered by data and AI optimize demand and supply in the logistics ecosystem for a seamless flow of cargo?

What I aim to solve

PREDICTIBILITY

forecasting demand for container shipments

AVAILABILITY

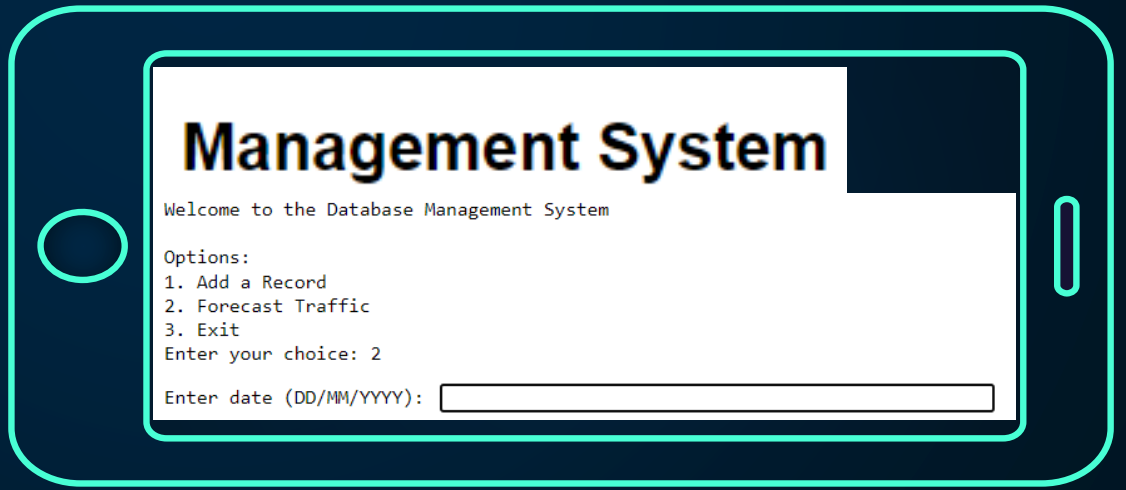
optimizing the availability of containers

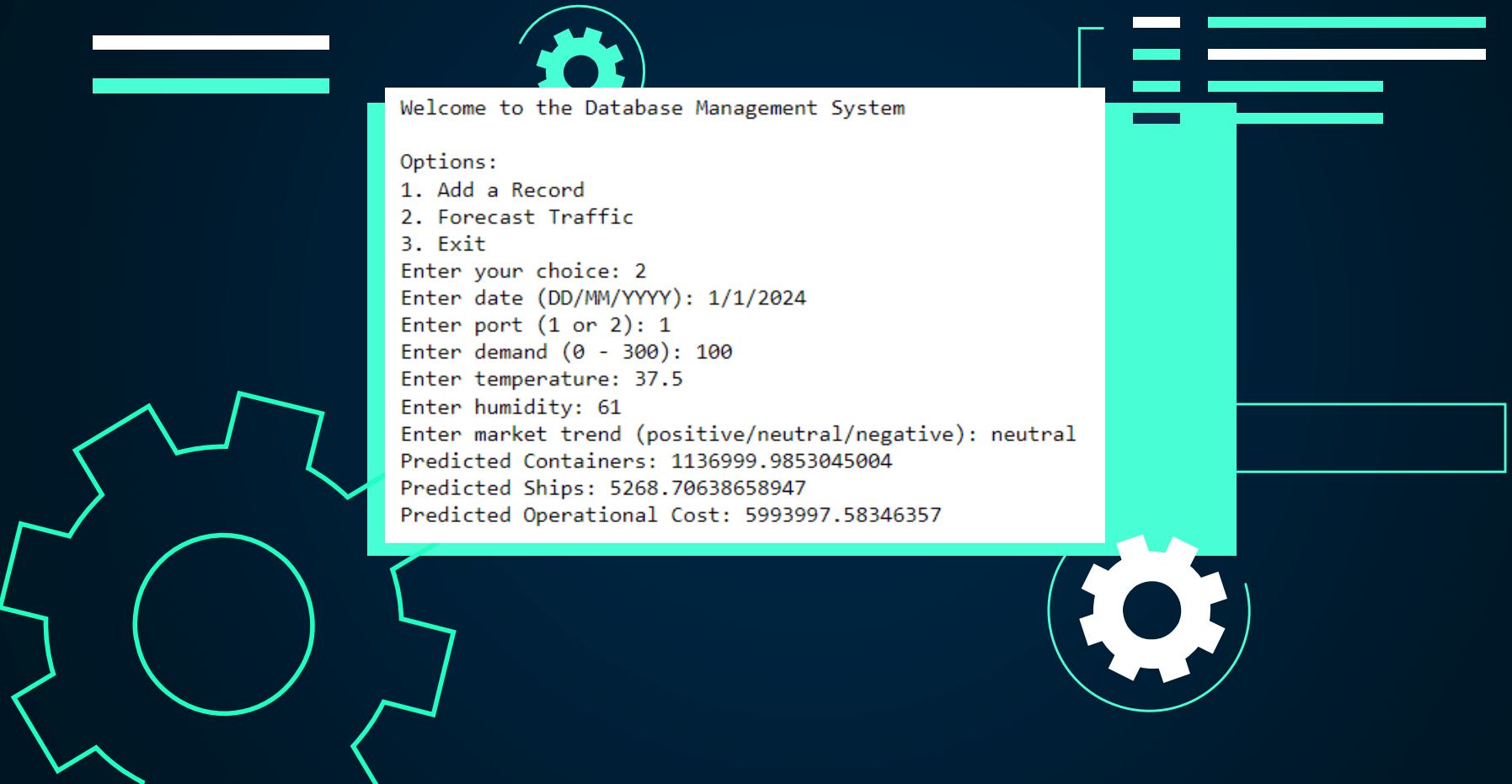
CAPACITY MANAGEMENT

Ensuring the infrastructure can handle the expected volume of shipments

ABOUT THE PROJECT

AI **Machine Learning Model** that predicts container shipment volume. Knowing how much cargo to expect in advance allows workers to plan ahead to optimize the availability of containers and ensure the infrastructure can handle the expected volume of shipments, allowing for seamless flow of cargo in the logistic ecosystem.




Welcome to the Database Management System
Options:
1. Add a Record
2. Forecast Traffic
3. Exit
Enter your choice: 2
Enter date (DD/MM/YYYY): 1/1/2024
Enter port (1 or 2): 1
Enter demand (0 - 300): 100
Enter temperature: 37.5
Enter humidity: 61
Enter market trend (positive/neutral/negative): neutral
Predicted Containers: 1136999.9853045004
Predicted Ships: 5268.70638658947
Predicted Operational Cost: 5993997.58346357

HOW IT WORKS

DATA ENTRY PAST CARGO TRAFFIC INTO A DATABASE

MACHINE LEARNING TO STUDY HISTORICAL CARGO TRAFFIC

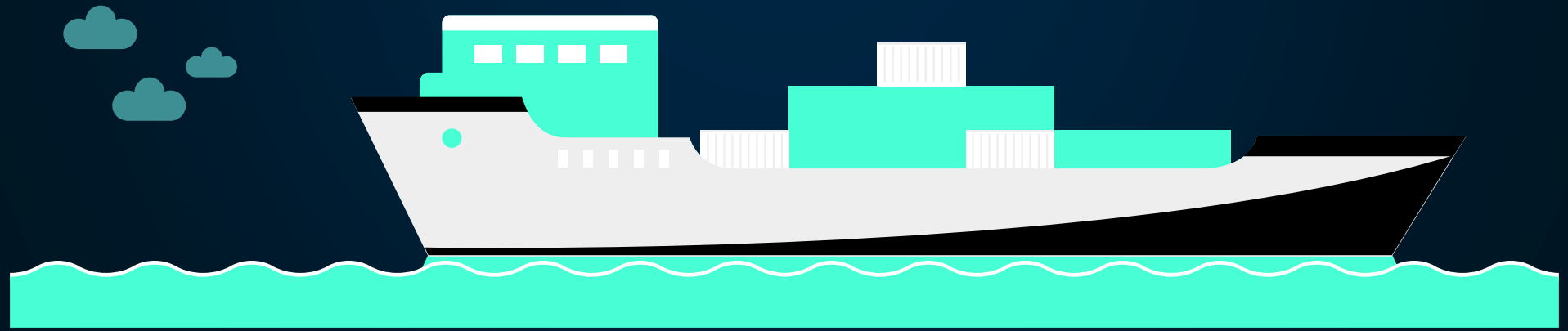
PREDICT CARGO TRAFFIC VOLUME FOR THE DAY

Benefits

1. PREDICT PORT TRAFFIC FOR ANY HOUR OF THE DAY
2. PLAN AND PREPARE AHEAD OF TIME
3. NO DISRUPTANCIES ON ACTUAL DAY

CONCLUSION

My digital solution is a machine learning model powered by data to predict the demand for cargo for the day so that the logistics ecosystem can be optimized for a seamless flow of cargo.



THE END

Thank you for your attention!

CREDITS

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