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Description automatically generated **Intelligent System**

**Weekly Report**

| **Project name:** | **Delivery Vehicle Routing System** |
| --- | --- |
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| **Week 9** | |

**✅ Tasks Completed:**

* Fixed data processing flow for better route calculations.
* Created a system diagram to document the process.
* Combined OR-Tools to generate multiple solutions and used GA to select the best route.
* Started ML-based optimization implementation.

**⚠️ Challenges Faced:**

* The ML model was not trained yet, slow progress.
* The system did not track the cost for route prediction, impacting performance on track predicting.

**🤔 How We Can Improve:**

* Implement cost tracking to enhance ML-based predictions.
* Improve documentation for future modifications.

**📌 Plans for Next Week:**

* Adjust the system based on teacher feedback:
  + Train the ML model and refine cost tracking:
  + Generate multiple solutions and compare them, and enhance the flow using the diagram below:

