Beta Presentation
Building Shipments Using Machine Learning
The Capstone Experience
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Project Overview

• Optimizes shipment process by creating shipments with the fewest possible stops
• Uses machine learning to cluster different orders and create shipments
• Suggest equipment type based on shipment size
System Architecture

- **Database** (Microsoft Azure)
- **API** (node.js, express, Postman)
- **Azure Endpoint**
- **Machine Learning Model** (PyTorch, scikit-learn, Azure)
- **Back-End** (.NET)
- **Front-End** (JavaScript)
- **User**
Orders Page
Shipment Page
Shipments Information Page
Order Entry Page

ORDER ENTRY

Move on with orders in the database?
Continue Without Upload
Add a CSV file or Excel File here.
Choose File | No file chosen | Upload

Or manually enter order details in the table below

<table>
<thead>
<tr>
<th>UIN</th>
<th>VIN</th>
<th>Vehicle Year</th>
<th>Vehicle Make</th>
<th>Vehicle Model</th>
<th>Pick-up Location Name</th>
<th>Pick-up Address</th>
<th>City</th>
<th>State</th>
<th>Zip</th>
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Make Order
What’s left to do?

• Features
  ▪ Print Feature
  ▪ Email Feature

• Stretch Goals
  ▪ Carrier Recommendation

• Other Tasks
  ▪ Login Validation
  ▪ Fix Bugs
  ▪ Redeploy Refined Models
Questions?