1. Full-time
2. Bachelor’s degree in computer science
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5. Optymalizacja systemów zarządzania zapasami w sklepie
6. Optimization of Store Inventory Management Systems
7. This project addresses the problem of store goods going to waste due to inefficient inventory management. While many systems focus on tracking stock levels, few effectively prevent overstocking and product expiration. I am creating a smart inventory optimization system that predicts demand and improves stock rotation. The system reduces excess orders and ensures older items are sold first. As a result, fewer goods go to waste and storage is used more efficiently. Compared to competitors, my solution is simpler to integrate and focuses on waste prevention. My product makes managing store stock more efficient and helps prevent unnecessary waste.
8. The thesis consists of the following parts:
   1. **Inventory Flow Optimization**
      1. Implement the FIFO (First-In, First-Out) method effectively across different product categories.
      2. Analyze current stock rotation issues and design solutions to minimize product expiration.
      3. Ensure that older items are prioritized for sale through system-driven stock handling rules.
   2. **Stock Level Balancing**
      1. Identify patterns that lead to overstocking or understocking.
      2. Set dynamic stock thresholds based on historical trends and product type.
      3. Design a system that automatically adjusts order quantities to maintain ideal stock levels.
   3. **Demand Forecasting with Data Analysis**
      1. Use historical sales data to predict future product demand.
      2. Apply statistical models and forecasting tools available in Power BI for accurate sales predictions.
      3. Integrate predictions into the inventory system to support better decision-making.