By leveraging data science and data-driven approaches across various aspects of its operations, ZenDawa can enhance efficiency, improve service quality, and drive growth and innovation in the healthcare ecosystem it serves. To provide a seamless and personalized experience for both customers and pharmacies, ZenDawa will have to optimize on the following data analytics capabilities;

- Customer Behavior Analysis: using data from the different CRMs, web sources to analyze and monitor <u>customer behavior</u> to understand what types of products are frequently ordered, peak ordering times, and preferred payment methods.
   From these Insights, we can inform inventory management and marketing strategies to our clients.
- Recommendation Systems: ZenDawa can utilize machine learning algorithms to set recommendation systems like for example by analyzing past purchase history and user preferences, the platform can suggest relevant products to customers, increasing the likelihood of additional sales.
- Geospatial Analysis: Implementing machine learning algorithms to match customer
  orders with the nearest pharmacy based on factors such as product availability, distance,
  and delivery capacity. This information can optimize the matching process (By
  considering factors such as traffic patterns, road conditions, and delivery constraints),
  ensuring that orders are routed to the nearest pharmacy with the requested products to
  streamline last-mile delivery thereby minimizing delivery time and cost.
- Demand Forecasting: We can leverage <u>predictive analytics</u> techniques to forecast demand for pharmaceutical products e.g. analyzing historical sales info, trends, and external factors (such as health awareness campaigns or disease outbreaks), ZenDawa can optimize inventory levels and avoid stockouts or overstocking thus improving the supply chain management.
- Customer Segmentation: classification of customers based on demographic information, purchase behavior, and preferences. This segmentation allows for targeted marketing campaigns and personalized communication, <u>improving customer</u> engagement and retention.
- Digital Sales Tracking and Al-Driven Credit Scoring: We can create an Al tool for
  pharmacies to track both online and offline sales data and use machine learning
  algorithms to analyze this data and generate credit scores for pharmacies based on their
  sales performance and financial position. These credit scores can then be used to
  unlock access to capital for different purposes.
- Telemedicine Platform and Medical Record Analysis: The ZenDawa telemedicine
  platform can be leveraged to allow patients to book online or in-person consultations
  with medics. Enhancement of data security measures can also be done to securely
  share and analyze medical records, allowing practitioners to make more informed care
  decisions.
- Continuous Improvement and Innovation: We can a feedback loop to collect and
  analyze user feedback, user patterns, and performance metrics. Use insights gained
  from data analysis to identify areas for improvement, development of features, and drive
  continuous innovation in the platform's offerings and user experience.