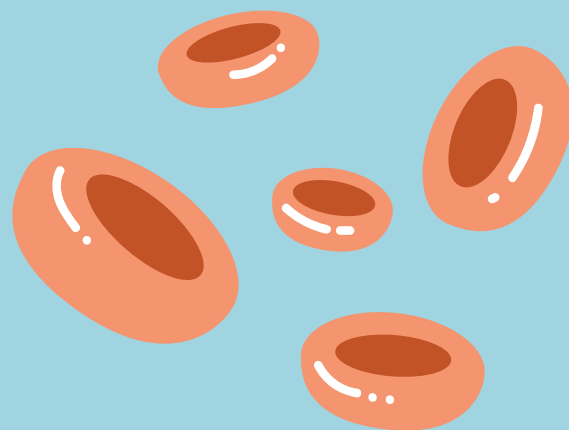
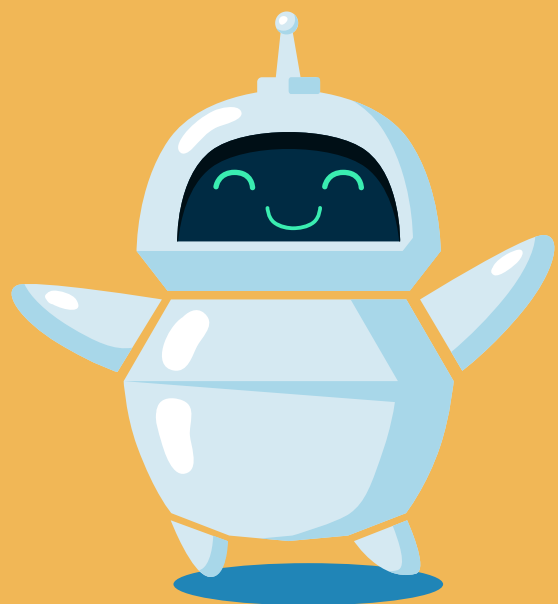


MEDIBOT

Exploring the
Advancements
in Medicine



Jazzal Kandiel , S21107396
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**How many pills do we have in
our homes today ?**



Wasted Resources

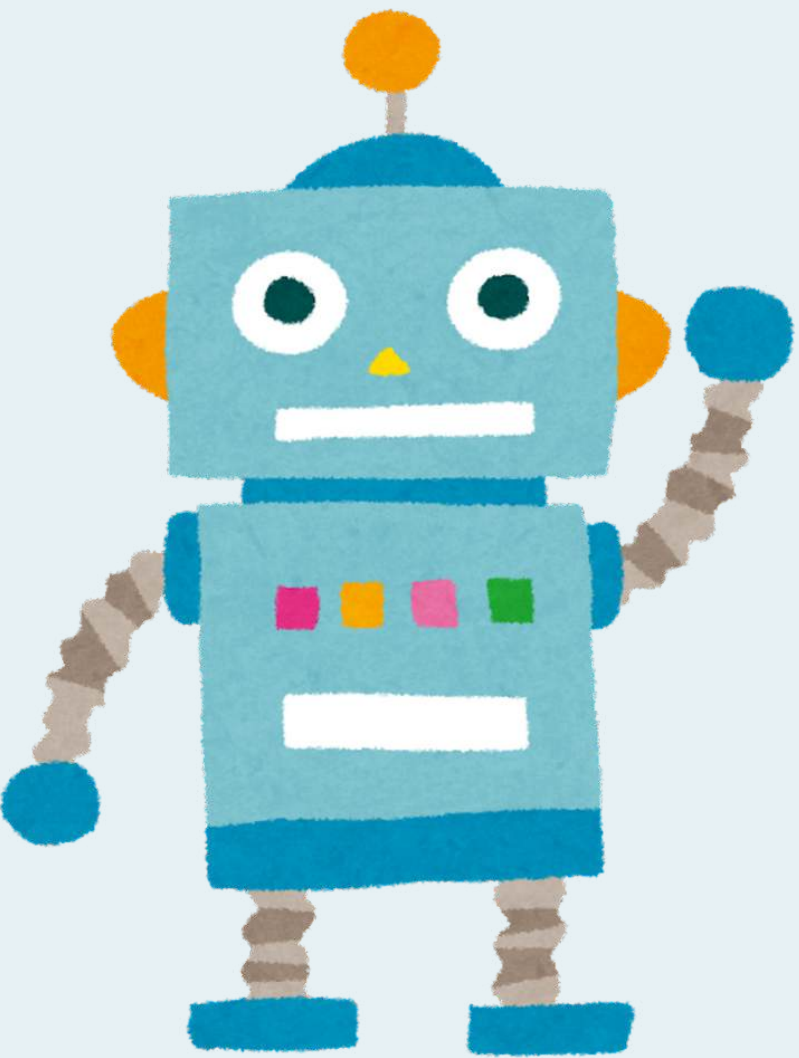
\$5Billion

Studies show that 20%-50% of medication prescribes and are not used as instructed

In the US alone 5 billion dollars are wasted annually on excess medication



MEDIBOT

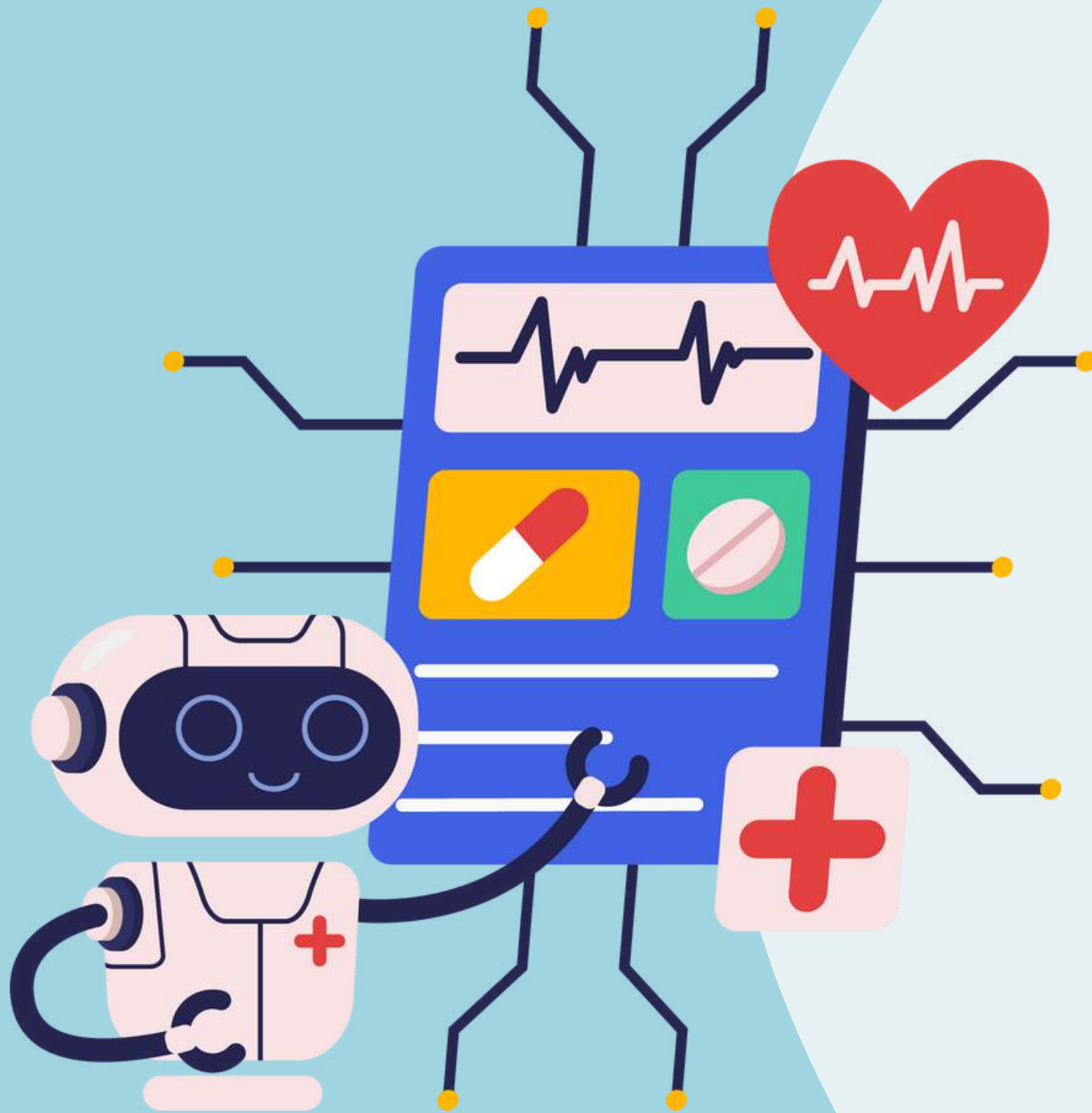
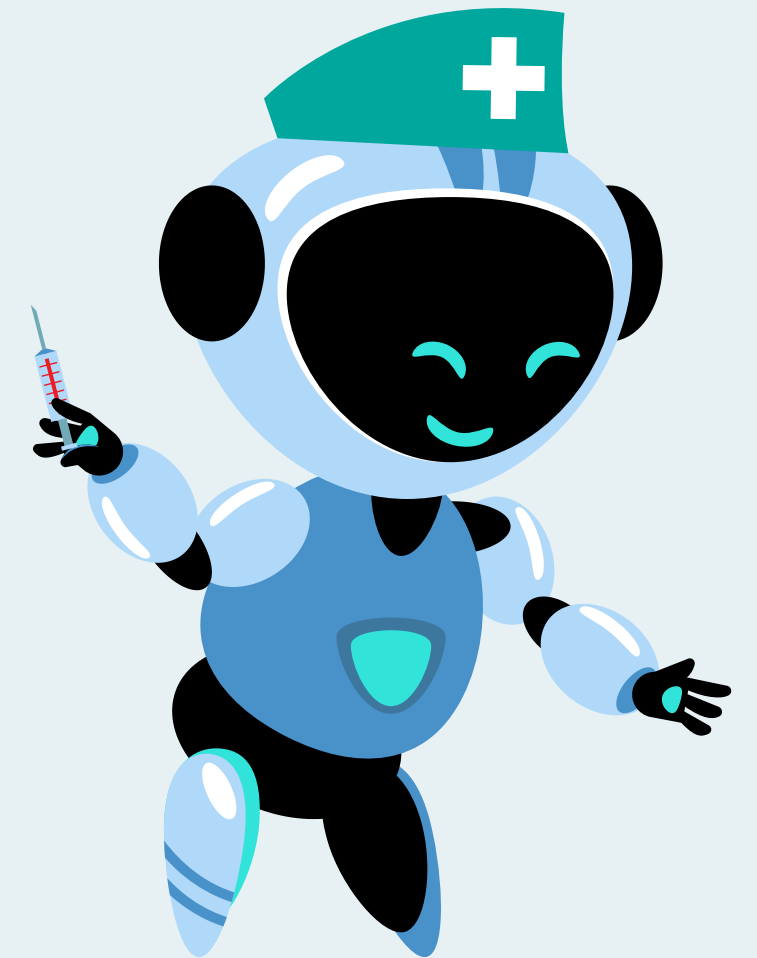


MediBot is a robotic solution that automates the medication dispensing process in healthcare. It reads prescriptions, calculates the required number of pills, and fills bottles while preventing contamination. By combining robotics with healthcare, MediBot reduces human errors and enhances patient safety.



BENEFITS OF MEDIBOT

- * Decreased health costs
- * Reduced risk of addiction
- * Increased efficiency
- * Support healthcare professionals





MediBOT

Hardware

1. Robotic Arm
2. Optical Character Recognition (OCR) Scanner
3. Load Cells
4. Hopper and Dispensing Mechanism
5. Control Unit
6. Sensors

Software

1. Optical character recognition (OCR)
2. Machine Learning Algorithm's
3. User Interface
4. Control Algorithms
5. Prescription Processing Software

Summary

MediBOT: prescription filler

OVERVIEW	TECHNICAL ASPECT	SOCIAL AND ENVIRONMENTAL BENEFITS
MediBot is a robotic system that automates medication dispensing by reading prescriptions, calculating pill quantities, and filling bottles without contamination.	It utilizes hardware like robotic arms and OCR scanners, alongside software for prescription processing and control algorithms, ensuring accurate and efficient operation.	MediBot improves patient safety by reducing human errors, streamlines healthcare processes, and enhances medication accessibility and tracking.