

# Itai Kohn

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B.Sc. & fast-track M.Sc. student in Industrial Engineering, specializing in AI, Machine Learning, and Intelligent Systems. Currently researching Deep Reinforcement Learning for robotics. Seeking a student role in R&D, AI, data, or automation to tackle real-world challenges through smart technology.

## WORK EXPERIENCE

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### **Supply Chain Coordinator** | Bayer AG | 2023-Present

- Independently manage inventory of ~40 medical products within a stock of 100+, leveraging SAP, QV, and Excel for data analysis and decision-making. Optimize supply chain processes while coordinating with global suppliers, shippers, and internal departments (Finance, QA, Regulatory Affairs).
- Identified inefficiencies in invoice processing and developed automation tools (Excel VBA, SAP macros), reducing processing time by over 90% and integrating them into daily operations. Currently refining and enhancing these tools to improve workflow automation.

## EDUCATION

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**B.Sc. in Industrial Engineering and Management** | Ben-Gurion University of the Negev | 2021-2025  
Specializing in Intelligent Systems (AI, ML, automation), with strong skills in programming, data analysis, and statistical modelling. GPA: 86

**M.Sc. in Industrial Engineering and Management** | Ben-Gurion University of the Negev | 2025-2026  
Fast-track M.Sc. program in Intelligent Systems, with a focus on learning and decision-making in robotics.

## PROJECTS

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### **TurtleBot DRL Navigation (M.Sc. Thesis) | 2025 – Present**

Researching and developing a novel learning approach for robotic task acquisition, using Deep Reinforcement Learning in a simulated maze environment with a TurtleBot3. (PPO, Stable-Baselines3, OpenAI Gym, ROS, Gazebo, Python, behavioral data analysis, statistical evaluation).

### **Diabetes Prediction Modelling | 2024**

Developed supervised learning models (neural networks, decision trees, random forests) for diabetes diagnosis using real-world datasets. Final solution combined all models into a voting-based ensemble to boost performance. The project was ranked among the top in the Machine Learning course. (Python, Scikit-learn, NumPy).

### **AI Algorithm Engineering and Search Optimization | 2024**

Implemented heuristic search and classification algorithms (A\*, hill climbing, genetic algorithms, K-beams, decision trees) to solve state-space and predictive problems. Achieved fast and efficient solutions across diverse search scenarios through tailored algorithm design and effective use of computing resources via parallel processing. (Python, heuristic algorithms, parallel computing).

### **Python Automation & Web Projects (100 Days of Code, Udemy)**

Built multiple automation and web-based tools, including a flight price tracker, stock alert system, weather notifier, e-commerce scraper, and automated email/SMS alerts. (Python, REST APIs, Pandas, BeautifulSoup, Selenium, Git, HTML/CSS).

## LEADERSHIP EXPERIENCE

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**Confinement Company Sergeant, Section Leader** | IDF - Military Police Corps, Prison 4 | 2017-2019  
Led a platoon of 160 inmates and managed 6–8 commanders after completing two commanders' courses with excellence. (Leadership, team management, decision-making under pressure).

**Academic Mentor & Mathematics Tutor** | Perach - A National Program for Social Impact | 2021 – 2023  
Tutored students in math (5 units), from elementary to high school levels. (Teaching, communication, patience, mentoring).

**Also familiar with:** Java, SQL, R, QV.