

SAEID POULADCHANG

Data Scientist | AI Engineer

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Building **AI agents** that optimize supply chains and reduce operational costs. Deep Reinforcement Learning specialist with proven results: **+10.2% profit increase** through intelligent inventory optimization. Combining industrial engineering expertise with cutting-edge ML.

AI PROJECTS & LIVE DEMONSTRATIONS

Supply Chain AI - Inventory Optimizer

Deep Reinforcement Learning for frozen goods ordering under stochastic demand

- Built Double DQN agent that learns optimal ordering strategies autonomously
- **Results:** +10.2% profit increase, -15% waste reduction vs traditional heuristics
- Deployed on cloud infrastructure using containerization and PaaS architecture

🔧 Python · PyTorch · Flask · Docker · Render (PaaS)



SCAN FOR DEMO

Autonomous Controller - MountainCar

Continuous control optimization in sparse-reward environments

- Dueling DQN architecture achieving 98% success rate in complex control tasks
- Solves challenging problems with minimal feedback signals

🔧 Python · Gymnasium · Streamlit · Neural Networks



SCAN FOR DEMO

TECHNICAL EXPERTISE

AI/ML:	Deep Reinforcement Learning (DQN, Double DQN, Dueling DQN), PyTorch, TensorFlow
Engineering:	Operations Research, Critical Path Analysis, Constraint Optimization (Z3), Supply Chain
Development:	Python, SQL, Docker, Git, Flask, Streamlit, Cloud Deployment (PaaS)
Business:	Financial Analysis, KPI Development, Strategic Planning, Data-Driven Decision Making
Languages:	English (Professional), Italian (Conversational)

PROFESSIONAL EXPERIENCE

Co-Founder & CMO - Ketabgardi Startup Led go-to-market strategy & branding for peer-to-peer book platform	Oct 2020 – Oct 2021 Tehran, Iran
• Developed 5-year business plan and financial projections, secured 2nd place at National Startup Festival	
Project Control Expert - Anbooh Gostar Nasr Project optimization & constraint-based scheduling	Nov 2021 – Jan 2022 Tehran, Iran
• Applied critical path analysis and Z3 constraint solver for project schedule optimization	
• Managed inventory cost forecasting using statistical methods to reduce operational delays	

EDUCATION

MSc Engineering Technology (Strategos) University of Genoa, Italy	Sep 2024 – Present
MSc Marketing Management Shahid Beheshti University, Tehran, Iran	Sep 2022 – Sep 2024
BSc Industrial Engineering Yazd University, Iran	Sep 2017 – Feb 2022