

# 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 - Katabgardi Startup

Oct 2020 – Oct 2021

*Led go-to-market strategy & branding for peer-to-peer book platform*

Tehran, Iran

- Developed 5-year business plan and financial projections, secured 2nd place at National Startup Festival

### Project Control Expert - Anbooh Gostar Nasr

Nov 2021 – Jan 2022

*Project optimization & constraint-based scheduling*

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)

Sep 2024 – Present

University of Genoa, Italy

### MSc Marketing Management

Sep 2022 – Sep 2024

Shahid Beheshti University, Tehran, Iran

### BSc Industrial Engineering

Sep 2017 – Feb 2022

Yazd University, Iran