

Niloufar Motamedi

COMPUTER SCIENCE STUDENT AT AMIRKABIR UNIVERSITY

Tehran, Iran

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Education

Amirkabir University of Technology (Tehran Polytechnic)

B.SC. IN COMPUTER SCIENCE

Tehran, Iran

2022 - Present

Skills

Programming	Python, C++, SQL
Web Development	HTML, CSS
Networking	TCP/IP, Routing, Switching, Network Security
Tools & Technologies	Git, Linux, Wireshark, Cisco Packet Tracer
Languages	Persian (Native), English (Intermediate)

Experience

Bank Mellat

INTERN

- Gained hands-on experience with financial systems and banking operations
- Learned basic financial concepts and their implementation in software systems
- Participated in system analysis and documentation processes

Tehran, Iran

July - August - 2025

Relevant Courses

Core Courses Data Structures, Algorithms, Computer Networks, Operating Systems, Software Engineering, Web Programming

Technical Certifications CompTIA Network+, Cisco CCNA

Certificates

CompTIA Network+

CANDO ACADEMY

- Certificate of completion for core networking concepts
- Covered network infrastructure, operations, security, and troubleshooting

Cisco CCNA

CANDO ACADEMY

- Practical knowledge of routing, switching, and networking fundamentals
- Hands-on experience with network configuration and troubleshooting

Projects

Python, PyGame, AI Algorithms

OTHELLO GAME AI

- Implemented Othello AI with Minimax, Expectimax, and MCTS algorithms
- Developed PyGame GUI with weighted board evaluation system
- Created multiple AI vs AI game modes for algorithm comparison
- Technologies:** Python, PyGame, AI Search Algorithms
- GitHub:** github.com/niloufarmtd/Othello-Game

Python, Tkinter, CSP Algorithms

SKYSCRAPER PUZZLE SOLVER

- Built constraint satisfaction problem solver for Skyscraper puzzles
- Implemented backtracking with MRV, LCV, and MAC optimizations
- Designed Tkinter GUI with real-time puzzle visualization
- Technologies:** Python, Tkinter, CSP Algorithms
- GitHub:** github.com/niloufarmtd/Skyscraper-Puzzle-Solver

Python, Machine Learning, Data Analysis

GENETIC ALGORITHM ANALYSIS

- Conducted comparative analysis of Genetic Algorithm vs K-Means clustering
- Implemented advanced outlier detection using Z-score and IQR methods
- Utilized PCA for dimensionality reduction and performance visualization
- Technologies:** Python, Scikit-learn, Pandas, Matplotlib
- GitHub:** github.com/niloufarmtd/Genetic-Algorithm

Python, Machine Learning, Data Science

FRAUD DETECTION SYSTEM

- Developed comprehensive fraud detection pipeline using machine learning
- Performed data exploration, preprocessing, and model comparison with LazyPredict
- Achieved high accuracy with LightGBM classifier for fraud classification
- **Technologies:** Python, LightGBM, LazyPredict, Jupyter Notebook
- **GitHub:** github.com/niloufarmtd/Fraud-Detection

position

Motivated Computer Science student with strong interest in web development, computer networks and programming. Seeking to apply technical skills and knowledge in practical environments while continuing to learn and grow professionally.