Seyyed Mohammad Hamidi

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EDUCATION

Master of Science Sep 2025 - Present
- *Shahid Beheshti University* *Tehran-Iran*
  - Field of Study: Algorithms and Computation Theory

Bachelor of Science Sep 2019 - Sep 2024
- *Amirkabir University of Technology* *Tehran-Iran*
  - Field of Study: Electrical Engineering (Control)
  - Grade Point Average: 3.50/4 (17.01/20.00)
  - Dissertation: Generative Model for Persian Poetry – A Transformer-Based Approach

RESEARCH INTERESTS

- Algorithms
- Computation Problems
- System Design
- Artificial Intelligence
- Anomaly Detection
- RAG Systems

TA EXPERIENCES

- Basic Programming
  - Data Structures and Algorithms
  - Grading Homework and Exams
- Advanced Programming
  - Multithreaded Programming
  - Network Fundamentals
  - Advanced Data Structures, Algorithms
  - Grading Homework and Exams
- Introduction to Robotics
  - ROS 2
  - Python
  - Linux
  - Grading Homework
- Digital Control
  - Python
  - Real-Time Operating System (RTOS)
  - Grading Homework

NOTABLE COURSES

- Introduction to Artificial Intelligence
- Machine Learning
- Neural Networks
- Computational Intelligence
- Online Courses (@ *Coursera*)
  - *ML Specialization*
  - *DL Specialization*
  - *NLP Specialization*

NOTABLE PROJECTS

- **MedicineAid Model** (**Employer**: Avid System Shargh Company)
  - Developed an AI model for the **School of Pharmacy at Shahid Beheshti University**, capable of predicting over **700** parameters related to recombinant drug development.
- **GEMSTONE Project** (**Funded by the European Union**) *Link*
  - Engineered an AI model for *Trygons* to reduce power consumption in their boat manufacturing process.
- **RESIST Project** (**Funded by the European Union**) *Link*
  - Developed an AI model for *Trygons* to reduce the company's carbon footprint.
  - Designed and implemented a Neural Network to optimize the scheduling of the resin curing procedure.
- **Fire and Smoke Detection Model** (**Employer**: *IThermAI*)
  - Built a rule-based AI model for real-time fire and smoke detection in industrial environments.
  - Quantized the model for efficient deployment on HikVision cameras.
- **Anomaly Detection Model** (**Employer**: *Software Motion*)
  - Implemented a diffusion Model to detect anomalies in Software-in-the-Loop (SIL) data generated during the testing of automotive ADAS (Advanced Driver-Assistance Systems) functionalities.

SKILLS

Programming Skills

- Python
- C++
- C
- LaTeX
- Multi-Thread Programming
- Git
- REST API
- Docker
- Linux
- MySQL
- MongoDB

Soft Skills

- Teamwork
- Leadership
- Fast Learner
- Complex Problem Solving
- Fast Typing (+80 WPM)

LANGUAGES

- Native in Persian
- Proficient in English

REFERENCES

- References available upon request