Rastin Maleki

Data Scientist & ML Developer

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EXPERIENCE

SEENOUS | MACHINE LEARNING DEVELOPER

January 2025 – Present | Mashhad, Razavi Khorasan (Remote Part-time)

- → Trained deep learning models for fault detection in industrial machinery trained on vibration data.
- → Built desktop applications tailored to company requirements using Python.
- → Integrated a Motion Detection and Amplification feature into the company's product.
- → Developed data cleaning pipelines.

PROJECTS

CONDMASTER OVERLAY | PYQT, SOFTWARE DEVELOPMENT, DESKTOP DEVELOPMENT

SeeNous

- → Developed an extension application for Condmaster software which generates failure prediction on the application's displayed vibration signal.

LABELING DASHBOARD | QT, SOFTWARE DEVELOPMENT, DESKTOP DEVELOPMENT

SeeNous

- → Developed a Labeling Dashboard used for visualization, annotation and registration of vibration data.

QA AND RAG ON GUILAN FOOD RECIPES (GITHUB) | PYTORCH, FINE-TUNING, LLM, RAG

Course Project

- → Developed a question answering project from scratch. Fine-tuned Llama LLM on PQuAD dataset with RAG implementation.

ELVA: EMBEDDED LANGUAGE MODEL AND VIRTUAL ASSISTANT (GITHUB) | IOT, ESP32, PYTHON, C, HUGGING FACE, LLM, TTS, STT

Course Project

- → Developed a small embedded system capable of listening, processing, and responding to human speech, functioning as a smart virtual assistant.

WEBSITE TRAFFIC PREDICTION (GITHUB) | PYTHON, DATA SCIENCE, MACHINE LEARNING, CLASSIFICATION ALGORITHMS, PRESENTATION AND DOCUMENTATION

Datacamp Certification Exam

- → Submitted this project for the DS601P exam on DataCamp as the final evaluation of the Data Scientist certificate.

PUBLICATIONS

- → Fatemeh Ahmadi, Anita Kamani, **Rastin Maleki**, Pooya Kazemian, Yasaman Boreshban, and S. A. Mirroshandel, **"PerCG: The Persian Common Ground Dialogue Corpus"** Submitted to Language Resources and Evaluation, 2025. Submission ID: c5d8a29c-cb53-4a84-b518-20dfda65c4dc.
- → M. Amin Rezanezhad, **Rastin Maleki**, Sepehr Rezaii Melal, Mahdi Aminian, and S. M. Shekarian, **"Modeling the Prediction of Indoor Humidity and Temperature in Smart Greenhouses by Combining LSTM and IoT"** In Preparation
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SKILLS

TECHNOLOGIES

- Python • Java • C++ • SQL
- Qt • PyTorch • Tensorflow
- Tableau • Git • Linux

DOMAINS

- Statistics • Machine Learning
- Deep Learning • Data Science
- Data Analysis • Data Visualization • NLP • LLMs orchestration

EDUCATION

UNIVERSITY OF GUILAN

BACHELOR OF SCIENCE, COMPUTER SCIENCE

September 2021 - September 2025 | Guilan, Iran

- → GPA: **18.77 / 20**
- → Ranked **4th** out of 61

COURSEWORK

Advanced Programming: 20
Data Structures: 20
Algorithm Design: 19.91
Artificial Intelligence: 19.21
Deep Learning: 19
Natural Language Processing: 20

CERTIFICATIONS

Machine Learning Specialization (Coursera)
Python for Everybody Specialization (Coursera)
Data Scientist Certificate (Datacamp)
Data Analyst Certificate (Datacamp)
Data Engineer Certificate (Datacamp)
SQL Associate Certificate