Aylin Naeb Zadeh

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Education

Iran University of Science and Technology   Tehran, Iran
B.Sc. in Computer Engineering at Iran University of Science & Technology   Oct 2020 - Sep 2024

- Overall GPA: 3.80/4.0. (17.81/20.0 in Iranian Scale)
- Ranked Among Top 10% GPA in Class of 100 Students
- Selected Courses (in Iranian Scale): Fundamentals of Data Science: 20, Data Mining: 20, Complex Dynamic Network: 19.5, Natural Language Processing: 17.75, Computer Vision: 17.09

Ranked Among Top 0.5% in Iranian University Entrance Exam   July 2020
Mathematics and Physics

- Ranked 668 Among 168000 Students

Research Prospective

- **Data Science**   • **Data Mining**   • **Machine Learning**   • **Deep Learning**
- **Natural Language Processing**   • **Computer Vision**

Teaching, Research & Professional Experience

NLP Research Assistant in NLP Laboratory   Iran University of Science and Technology, Tehran
Bachelor Thesis, School of Computer Engineering   June 2023 - present

- Working on Medical Reasoning task
- Working on "Psychological Chatbot for Persian Language" project

Teaching Assistant   Iran University of Science and Technology, Tehran
School of Computer Engineering   Sep 2020 - July 2024

- **System Analysis and Design (Scrum master and Product owner)** - Spring 2024
- **Data Structures** - Fall 2022
- **Advanced Programming** - Spring 2022
- **Fundamentals of Computer Programming** - Fall 2021
- **Discrete Mathematics** - Fall 2021

Backend Developer   Advance Big Data Analysis Lab (ABDAL), Tehran
Backend developer   July 2022 - March 2024

- Working on a project related to spatio-temporal data analysis
- Developing and testing several APIs
- **Programming Languages:** Python
- **Frameworks:** Django REST, MySQL, Elasticsearch and Kibana, JMeter, Postman, Swagger

Skills

- **Programming Languages:** Python (Advanced), C# (Intermediate), C/C++ (Experienced), JS (Experienced)
- **Libraries and Frameworks:** Pytorch, Keras, TensorFlow, Scikit-Learn, Numpy, Django REST, Blazor .Net, React JS
- **Environments and Tools:** Linux(Ubuntu, Arch), Git, Postman, JMeter, Swagger
- **Databases:** SQLServer, MySQL, PostgreSQL, Elasticsearch

University Selected Projects

Data Mining projects   Iran University of Science and Technology
Data Mining Course Projects - GitHub   Fall 2023

Complex Network Analyzer   Iran University of Science and Technology
Complex Dynamic Networks Course Project - GitHub   Spring 2023

Nomad Journey   Iran University of Science and Technology
System Analysis and Design Course Project - GitHub   Spring 2023

Genome Assembly   Iran University of Science and Technology
Algorithm Design Course Final Project - GitHub   Spring 2022

Publications

- **NICA at EXIST CLEF Tasks 2024** `Published`
  15th Proceedings of the Conference and Labs of the Evaluation Forum, France (doi) - GitHub
  July 2024
  Authors: **A. Naebzadeh**, M. Nobakhtian, S. Eetemadi

- **NICA at Quantum Computing CLEF Tasks 2024** `Published`
  15th Proceedings of the Conference and Labs of the Evaluation Forum, France (doi)
  July 2024
  Authors: **A. Naebzadeh**, S. Eetemadi

- **MultiCGCN: Multi-Label Text Classification using GCNs and Heterogeneous Graphs** `Published`
  International Journal of Web Research (doi) - GitHub
  December 2024
  Authors: M. Allahgholi, H. Rahmani, P. Soltanzadeh, **A. Naebzadeh**

- **GinGer at SemEval-2025 Task 11: Leveraging Fine-Tuned Transformer Models and LoRA for Sentiment Analysis in Low-Resource Languages** `To be Published`
  The 19th International Workshop on Semantic Evaluation, Vienna, Austria - GitHub
  April 2025
  Authors: **A. Naebzadeh**, F. Askari

- **GinGer at SemEval-2025 Task 2: Challenges in Entity-Aware Machine Translation with Fine-Tuning and Zero-Shot Prompting** `Submitted`
  The 19th International Workshop on Semantic Evaluation, Vienna, Austria - GitHub
  April 2025
  Authors: **A. Naebzadeh**

- **Exploiting Geoffrey Hinton's Knowledge Graph: Building a Hybrid RAG Agent for Interactive Communication** `Submitted`
  The 31th International Conference on Computational Linguistics, Abu Dhabi, UAE - GitHub
  November 2025
  Authors: **A. Naebzadeh**, S. Eetemadi