

Education

M.Sc. in Advanced Computing, King's College London

London, UK | Sep. 2024 - Now

- Modules: AI Reasoning and Decision Making, AI planning, Computer Vision, Agents and Multi-Agent Systems, Pattern Recognition and Deep Learning, Machine Learning, Data Mining, Introduction to Data Visualization. **Average grade of modules: 72.88 (Distinction)**
- Thesis: **Making Audio and Video Media More Accessible to Users with Complex Communication Needs using AI approaches**

B.Sc. in Computer Engineering, Amirkabir University of Technology (Tehran Polytechnic)

Tehran, Iran | Sep. 2019 - Apr. 2024

- GPA: **18.60/20 (3.94/4)**, ranked **10th** among 154 students (**top 6%**)
- Thesis: **Disease Diagnosis based on Brain Functional Network Analysis Focusing on Graph Neural Networks**

Professional Experiences

Research Assistant, Institute for Research in Fundamental Sciences (IPM)

Tehran, Iran | Aug. 2023 - Sep. 2024

- Explored novel ideas in explainable AI, focusing on Generative Adversarial Networks and vision transformers.

Research Assistant, Shahid Beheshti University

Tehran, Iran | Aug. 2023 - Jul. 2024

- Investigated the detection of AI-generated text from human-written text using semantic and syntactic approaches, achieving high accuracy across multilingual and monolingual tasks.

Teaching Assistant, Amirkabir University of Technology

Tehran, Iran | May. 2023 - Dec. 2023

- Courses: Cloud Computing, Data Mining, Applied Linear Algebra, Algorithms Design, Data Structures and Algorithms, Signals and Systems
- Created course materials (e.g., tutorial videos), designed weekly assignments and projects, formulated exams.

Machine Learning Engineer, Asa Company [\[LinkedIn\]](#)

Tehran, Iran | May. 2023 - Sep. 2023

- Deployed advanced Machine Learning algorithms for NLP tasks like named entity recognition, text classification, and summarization.
- Explored and integrated various pre-trained models, including transformer-based architectures like BERT, to enhance model performance.

Artificial Intelligence Intern, Faradis Alborz Company [\[LinkedIn\]](#)

Tehran, Iran | Jul. 2021 - Oct. 2021

- Developed a project to predict optimal ATM cash management using time series analysis and neural networks with Keras and Scikit-learn.

Publications

- Farsi, F.* , **Bali, S.*** , Aref, M., Nourmohammadi Khiarak, J. "Preserving the Iranian Turkic Language: A Community-Based ASR System and Dataset for South Azerbaijani". To be Submitted for IJCNLP-AAACL (2025) (* equal contribution).
- Farsi, F.* , **Bali, S.*** , Hosseini, M., Khorramrouz, A., Asgari, E. "Detecting Subtle Biases: An Ethical Lens on Underexplored Areas in AI Language Models Biases". Submitted for EMNLP (2025) (* equal contribution).
- Farsi, F., Shariati Motlagh, S., **Bali, S.**, Sabouri, S., Momtazi, S. "Persian in a Court: Benchmarking VLMs in Persian Multi-Modal Tasks". In Proceedings of the First Workshop of Evaluation of Multi-Modal Generation, The 31st International Conference on Computational Linguistics (COLING's Workshop) [\[Link\]](#)
- Heydari Rad, M.* , Farsi, F.* , **Bali, S.*** , Etezadi, R., Shamsfard, M. "RFBES at SemEval-2024 Task 8: Investigating Syntactic and Semantic Features for Distinguishing AI-Generated and Human-Written Texts". In Proceedings of the 18th International Workshop on Semantic Evaluation (SemEval-2024), Co-located with NAACL 2024 (2024). (* equal contribution) [\[Link\]](#)

Skills & Languages

- **Languages:** English (Fluent, **IELTS Overall Score: 7.5**; R : 8; L : 8.5; S : 7.5; W : 6.5), Persian (Native)
- **Skills:** Python, Java, C, TensorFlow, Keras, Scikit-Learn, PyTorch, ~~Mat~~X, Git
- **Familiar:** Apache Spark, Docker, Kubernetes, Elasticsearch, HTML/CSS, JavaScript, MySQL

Extracurricular Activity

Presenter, The 31st International Conference on Computational Linguistics (COLING 2025)

Abu Dhabi, UAE | Jan 2025

- Presented our accepted paper : "Persian in a Court: Benchmarking VLMs in Persian Multi-Modal Tasks".

Main Member, Computer Engineering Student Council, Amirkabir University of Technology

Tehran, Iran | Jul. 2021 - Nov. 2022

- Collaborated with council members to organize student events, represent concerns, and improve curriculum and facilities.

Selected Projects

UK Football Performance Visualizer, using PyTorch [\[Github\]](#)

2025

- Built an interactive tool to generate a choropleth map and trend charts for exploring football team performance across UK counties (2005–2024).

Image Classification Using Transfer Learning, using PyTorch [\[Github\]](#)

2024

- Evaluated and compared the performance of pre-trained models (AlexNet, VGG16, ResNet) in image classification on the Natural Images dataset.

Text Classification and Summarization, using PyTorch Lightning, Elasticsearch, BERT, Hazm

Asa. Co. | 2023

- Built a multi-label text classifier using BERT embeddings and PyTorch Lightning, trained on diverse data collected via Elasticsearch.
- Persian text summarizer using Hazm and Transformer models for context-aware, coherent summaries.

Game Recommending System, using Python, Apache Spark [\[Github\]](#)

2023

- Developed a game recommendation system based on user ratings, and utilized collaborative filtering for personalized game suggestions.