Selin Sarak

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in LinkedIn: https://www.linkedin.com/in /selinsarak/

EDUCATION AND TRAINING

Master of Science in Electronics Engineering

Sapienza Università di Roma [20 Sep 2022 – 30 Oct 2025]

City: Roma | **Country:** Italy | **Thesis:** An End-to-End RAG System for Scientific Research: from Hybrid Chunking to Interactive Answer Generation

- Developed a modular, configurable RAG pipeline enabling systematic comparison of chunking, embedding, and retrieval strategies for scientific literature.
- Designed a hybrid structural-semantic chunking method and evaluated transformer embeddings using vector indexes.
- Integrated a citation-grounded answer generator achieving high retrieval and accuracy performance.

Bachelor of Science in Electrical & Electronics Engineering

Adnan Menderes University [20 Sep 2016 – 16 Aug 2020]

City: Aydın | **Country:** Turkey

WORK EXPERIENCE

🏢 *Orion Innovation Turkey* – Istanbul, Turkey

Global Product Support Engineer (Multimedia Platform and OAM)

[16 Jan 2022 – 1 Sep 2022]

- Conducted analysis of customer requirements and compared them with the current system architecture.
- Provided technical support for Global Network, Voice, and IP services to resolve complex system and network issues and outages.
- Conducted operational testing of new products and software.
- Installed, configured, and maintained local labs to ensure optimal performance.
- Resolved issues related to Oracle and RedHat Linux.
- Proficient in case management using Salesforce and JIRA.
- Possess knowledge and experience in Oracle/Postgres RDBMS.

🏢 *Vestel* – Manisa, Turkey

Intern - R&D Product Safety & Certification

[1 Jul 2020 – 15 Sep 2020]

- Participated in technical training programs and collaborated with R&D teams across multiple departments.
- Assisted engineers in safety tests and conducted independent test procedures.
- Gained practical experience with safety standards, testing workflows, and cross-functional communication.

VOLUNTEERING AND SOCIAL ACTIVITIES

[18 Nov 2021 – 26 Nov 2021]

Erasmus+ Youth Exchange/The Red Bench

Vicenza, Italy

- Developed and implemented a project aimed at raising awareness among young people about different forms of violence, including physical and psychological abuse.
- Led the design and decoration of a "red bench" as a memorial to honor women who have suffered from violence.

[19 Sep 2021 – 20 Oct 2021]

Erasmus+ ESC(European Solidarity Corps) Travel Memory

Blagoevgrad, Bulgaria

- Supported Erasmus+ project development, grant preparation, and activity coordination.
- Facilitated intercultural workshops and youth engagement events.
- Contributed to civic education and community awareness initiatives.

LANGUAGE SKILLS

Mother tongue(s): Turkish

Other language(s):

English	**Italian**
LISTENING C1 **READING** C1 **WRITING** C1	**LISTENING** A2 **READING** A2 **WRITING** A1
SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1	**SPOKEN PRODUCTION** A1 **SPOKEN INTERACTION** A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

MATLAB / JIRA / Salesforce / Linux / RedHat / VoIP / Networking (TCP/IP) / Bash / Python / PyTorch / RAG Systems / Semantic Search / Transformer Embeddings (MPNet, SciBERT, BGE) / FAISS (vector indexing) / Sentence Transformers / PDF parsing / GROBID / t-SNE

DRIVING LICENCE

Driving Licence: B