AMIRALI GATMIRI

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PROFESSIONAL SUMMARY

Software Developer and Machine Learning Engineer specializing in conversational AI, speech processing, and NLP. Experienced in building SaaS products, developing RAG-based QA systems, and deploying speech recognition & text-to-speech pipelines. Proficient in Python, backend frameworks (Flask/Django), and modern ML tools (Transformers, PyTorch, TensorFlow), delivering scalable and production-ready solutions.

TECHNICAL STRENGTHS

Programming Languages	**Python**, JavaScript, Java, C/C++, MATLAB, Rust, R
AI & ML Concepts	Speech Processing, NLP, LLM, **RAG**, Prompt Engineering
AI & ML Tools	TensorFlow, PyTorch, Keras, Transformers, LangChain
Web Development	**Flask**, Django, RESTful APIs, Slack Integration
Databases	SQL [SQlite, PostgreSQL], SQL Server, SSMS
Development	Git, Docker, CI/CD, Testing, Automation
Media	Video Editing, Audio Processing

EXPERIENCES

Software Developer (Remote) *April 2024 – Present*

DoneX – Montreal, Canada (Tehran, Iran)

Spearheaded the development of DoneXChat, a SaaS conversational AI for document-based question answering, focusing on retrieval-augmented generation (RAG), multi-document Q&A, and scalable backend design.

- Built database-backed architecture enabling multi-user and multi-group document management.
- Implemented advanced retrieval techniques (multi-query generation, reranking, similarity thresholds) to improve accuracy of answers across diverse document sets.
- Designed testing and continuous deployment workflows for production
- Improved retrieval accuracy and scalability of the RAG pipeline for enterprise-level document QA.
- Developed DoneXBot, a Slack-integrated assistant automating invoice reporting and database interactions.

Machine Learning Engineer *June 2021 – April 2023*

Asr Gooyesh Pardaz – Tehran, Iran

- Built tools for benchmarking speech recognition models and deployed Persian text-to-speech systems with neural architectures.
- Developed a real-time language detection system (110+ languages) using TDNNs and x-vector embeddings.
- Researched & implemented keyword spotting and voice conversion; authored blogs on emerging NLP technologies (LLMs, ChatGPT).

Research Intern *February 2019 – November 2020*

Information, Network & Learning Lab – Tehran, Iran

- Analyzed and mitigated data leakage in TLS protocols using machine learning (CNN, RNN), enhancing data security practices.
- Authored a peer-reviewed research paper on systematic masking techniques to secure encrypted network protocols.
- Applied and Gained expertise in Python libraries (TensorFlow, PyTorch) for machine learning and data analysis.

EDUCATION

Sharif University of Technology *2015 – 2021*
B.S. in Computer Engineering

Atomic Energy Highschool *2011 – 2015*
Diploma in Mathematics and Physics
GPA: 4/4 (19.3/20)
University Entrance Exam (Konkoor) Ranking: 138 [between 200,000 participants]

LANGUAGE SKILLS

English	Full Proficiency
German	Working Proficiency
Farsi	Native