AMIRALI GATMIRI

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PROFESSIONAL SUMMARY

Experienced Software Developer and Machine Learning Engineer with a strong background in AI-based solutions, backend development, and research. Adept at designing and deploying applications in real-world environments, with expertise in conversational AI, speech recognition, and neural network-based models. Proficient in Python, Django/Flask, and data-driven decision-making with a commitment to delivering high-quality, impactful solutions.

EXPERIENCES

Software Developer (Remote) *April 2024 – Present*
DoneX – Montreal, Canada (Tehran, Iran)

Led the development of a Slack-integrated business assistant bot to connect to company databases for generating invoice reports and facilitating user interaction to edit invoice status. Additionally, initiated a conversational AI project for document-specific question-answering systems.

- Gained expertise in Slack's Block Kit, API integrations, project management and scalability.
- Designed efficient backend architectures to handle dynamic user queries.
- Enhanced skills in chatbot frameworks and natural language processing for real-time applications.

Machine Learning Engineer *November 2022 – April 2023*
Asr Gooyesh Pardaz – Tehran, Iran

- Built a benchmarking tool to evaluate speech recognition models with newly collected dataset and to compare performances of models.
- Worked on Persian text-to-speech models by training a new voice synthesis system using advanced speech processing techniques.
- Wrote blog articles to introduce key concepts in NLP (e.g., LLMs and ChatGPT) and make the technology more accessible to others.

Research Assistant *June 2021 – September 2021*
Asr Gooyesh Pardaz – Tehran, Iran

- Developed a speech language detection tool using Time-delay Neural Networks (TDNN) and x-vector embeddings, capable of identifying over 110 languages in real-time.
- Explored and implemented research in keyword spotting (KWS) and voice conversion, turning findings into usable tools for the company.
- Gained hands-on experience with audio processing techniques, including embeddings like x-vector, i-vector, and wave2vec, for speech-based applications.

Research Intern *February 2019 – November 2020*
Information, Network & Learning Lab – Tehran, Iran

Analyzed data leakage in the TLS protocol, identifying vulnerable segments of encrypted network data using machine learning models and proposing systematic masking solutions to mitigate vulnerabilities. Documented findings in a published research paper, contributing to advancements in network security and machine learning applications.

- Investigated data leakage in TLS protocols, applying CNNs, RNNs, and Decision Trees to identify vulnerable data segments and proposed systematic masking techniques to secure the protocol.

- Authored and presented a research paper, refining skills in academic writing, editing, and technical communication.
- Gained expertise in Python libraries (TensorFlow, PyTorch, Pandas) for machine learning and data analysis.
- Developed strong research capabilities, reading and applying insights from scientific papers to practical problems.

TECHNICAL STRENGTHS

Programming Languages	Python, JavaScript, Java, C/C++, MATLAB, R, LaTeX
Machine Learning Libraries	TensorFlow, PyTorch, Keras, Pandas
Backend Development	Django, Flask, API
Databases	MySQL, SQL Server, SSMS
Software Dev. Tools	Git, Bash Script, Docker
Video Editing	Magix Vegas, Adobe Premiere

EDUCATION

Sharif University of Technology   *2015 – 2021*
B.S. in Computer Engineering
GPA: 3.1/4 (15.2/20)

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