

ARTIN MAJD

AI / Machine Learning Engineer | Toronto, Canada

Email: artin.majd76@gmail.com Phone: +1 (437) 265-9091 LinkedIn: linkedin.com/in/artin-majd GitHub: github.com/artinmajd

PROFESSIONAL SUMMARY

- AI / Machine Learning Engineer with expertise in **NLP, Information Retrieval, and Deep Learning**, experienced in building **agentic AI systems (CrewAI, LangChain)** and fine-tuning LLMs for production use.
- 3+ years of industry and research experience delivering **production-ready AI systems**, including scalable classification pipelines, LLM-driven decision-making, and knowledge extraction from unstructured data.
- Skilled in **Python, PyTorch, TensorFlow**, with hands-on deployment on **GCP, Docker**, and applications in **RAG (FAISS, Pinecone)** and **reinforcement learning**.

WORK EXPERIENCE

NLP Research Assistant

Bridging Divides at TMU 📅 Oct 2024 – Present 📍 Toronto, Canada

- Developed a **multi-agent AI system** (CrewAI, GPT) for nonprofit classification, scaling to **10,000+ organizations** with **90% accuracy**.
- Engineered **four classification pipelines** (name-based, URL-based, name+URL-based, web-search-based), boosting accuracy by **30%**.
- Integrated **real-time web search** (LangChain, BeautifulSoup), increasing recall by **25%** over static dataset-only methods.
- Built a **scalable NLP pipeline** processing **5,000+ organizations/hour** and applied **LLM-driven decision-making** with OpenAI's temperature tuning to reduce misclassification in ambiguous cases.

Data Scientist

Ametros Learning Inc. 📅 Jun 2024 – Sep 2024 📍 Toronto, Canada

- Developed and deployed **5 BERT-based models and AI agent orchestrations** for question-answering, improving **accuracy by 15%** over baseline transformer models.
- Optimized **AI-agent interactions**, reducing processing time by **20%** through improved skill relation extraction and orchestration logic.
- Synthesized insights from **21 research papers** to support experimental design and enhance AI model development.

NLP Research Assistant

LS3-Lab at TMU 📅 Mar 2023 – Oct 2024 📍 Toronto, Canada

- Applied the **LLoM algorithm** to generate high-level concepts from AI-ethics articles, outperforming traditional keyword-based topic modeling.
- Analyzed **concept distribution over time**, uncovering evolving ethical trends and providing structured insights for research and policy-making.
- Leveraged **LLMs** to synthesize text into **interpretable concepts**, enabling automated **trend tracking** and scalable concept induction.

Software Engineer

Zardalu Inc. 📅 Aug 2020 – May 2022 📍 Tehran, Iran

- Built and maintained **scalable web applications** using React, JavaScript, TypeScript, HTML, and CSS.
- Led developer teams with **BDD workflows** and **Git**, improving efficiency and code quality.
- Designed **APIs and backend integrations**, delivering enterprise-grade projects with **scalability, reliability, and performance**.

EDUCATION

M.Eng. in Computer Engineering – Artificial Intelligence

Toronto Metropolitan University

📅 Sep 2022 – Oct 2024 📍 Toronto, Canada

- GPA: 4.12/4.33
- Teaching Assistant: *Artificial Intelligence in Business (Winter 2024), Business Intelligence and Analytics (Fall 2023)*

B.Sc. in Computer Engineering

Isfahan University of Technology

📅 Sep 2015 – Jan 2020 📍 Isfahan, Iran

- GPA: 3.18/4

TECHNICAL SKILLS

Frameworks & Libraries

- PyTorch, TensorFlow, Scikit-learn

AI Agents & Deployment

- CrewAI, LangChain, AutoGen, n8n
- Docker, Git, APIs (REST, FastAPI), CI/CD

Databases & Big Data

- MS SQL Server, PostgreSQL
- Hadoop, Spark, Hive, Google Cloud Platform (GCP), AWS (familiar)

Programming Languages

- Python, C/C++, JavaScript, HTML/CSS, SQL

Machine Learning Domains

- Natural Language Processing (NLP), Information Retrieval, Topic Modeling
- Prompt Engineering, Retrieval-Augmented Generation (RAG) with vector databases (FAISS, Pinecone)
- Reinforcement Learning, Graph Neural Networks

PERSONAL PROJECTS

AI Voice Assistant with Memory

- Built an AI-powered voice assistant using **Twilio + n8n**, with multi-turn dialogue and memory storage.

AI Therapist Prototype

- Designed an LLM-driven conversational agent with **retrieval-based memory** and emotional state tracking.

PDF Translator

- Developed a pipeline to extract text from **scanned PDFs** and translate it using **LLMs + OCR**, enabling cross-language document accessibility.