

# . Abbas Malekpour, Ph.D

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## Director of Artificial Intelligence and Machine Learning

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## National Projects & Strategic Advisory

### Tashil Sazan Rasa (Insurance Assessor)

*Iran*

- **National Insurance Assessment Optimization** :Led the development of AI-driven models to automate claim assessments and fraud detection, significantly reducing processing time for national insurance cases.
- **Risk Evaluation Systems** :Implemented predictive analytics for accurate risk evaluation across large-scale insurance portfolios.

### T-Port, Sita, Jahanak (Tourism & Travel)

*Iran*

- **Tourism Ecosystem Integration** :Architected a unified data strategy connecting T-Port, Sita, and Jahanak platforms to streamline national tourism operations.
- **Dynamic Pricing & Recommendation Engines** :Deployed machine learning algorithms for dynamic pricing and personalized travel package recommendations, boosting user engagement and revenue in the tourism sector.

### EasyMed (Healthcare)

*Iran*

- **Healthcare Digital Transformation** :Spearheaded the development of AI-powered diagnostic support tools and patient management systems for EasyMed.
- **Telemedicine Infrastructure** :optimized data pipelines to support national-level telemedicine initiatives, ensuring secure and real-time patient data processing.

### **Isfahan Chamber of Commerce**

*Isfahan, Iran*

- **Social Responsibility Commission Member** :actively served on the Social Responsibility Commission, advising on data-driven strategies for sustainable economic development and corporate social responsibility (CSR) initiatives within the province.

### **Strategic Consultant (Industrial & Energy Sectors)**

*Various Locations*

- **MAPNA Group** :Provided high-level consultancy on implementing Industrial IoT (IIoT) and predictive maintenance models for power plants and industrial infrastructure.
- **Pegah Dairy** :Advised on supply chain optimization and production line automation using AI and computer vision technologies.
- **Industrial Estates & Associations** :Acted as a key advisor to various industrial towns and professional associations, guiding digital transformation roadmaps and AI adoption strategies.

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## **Professional Experience**

### **Director of Artificial Intelligence and Machine Learning**

*)Recent Position from original CV(*

- **Supply Chain Optimization:**
- Applied expertise in Large Language Models (LLMs) and multi-agent systems.
- Developed intelligent platforms for supply chain optimization, communication, and coordination between departments.
- **Achievements:**

- Transformed the company's approach to technology and innovation within the mining sector.
- Contributed to significant improvements in productivity, safety, and cost-effectiveness.

### **Professor of Artificial Intelligence and Machine Learning**

*University of Toronto*

*Aug 2017–Jul 2021 Toronto, Ontario, Canada (Hybrid)*

- **Teaching and Curriculum Development:**
- Designed and delivered undergraduate and graduate courses in artificial intelligence, machine learning, data analytics, and computer science.
- Courses included advanced topics in neural networks and deep learning architectures.

### **Lead Data Scientist and Data Engineer**

*Kamaly Group Realty*

*Aug 2017–Mar 2018 Toronto, Ontario, Canada*

- **Real Estate CRM Strategic Planning:**
- Implemented machine learning and computer vision for big data in real estate CRM.
- **Predictive Modeling:**
- Developed and optimized models to predict house pricing using time series analysis.
- **NLP and Image Processing:**
- Applied Natural Language Processing, Text Classification (Sentiment Analysis), Language Modeling, and Image Processing models.
- **Recommender Systems:**
- Developed personalized property recommendation engines to enhance client experience.

### **Senior AI and Big Data Scientist Researcher and Sessional Instructor**

*University of Stuttgart*

*/ 2017 – 2018 Germany*

- **Teaching and Curriculum Development:**

- Taught courses including:
- *Probability & Statistics for Data Science*
- *Machine Learning for Data Science with Python*
- *Algorithms for Data Science*
- *High-Performance Computing*
- **Deep Learning Applications:**
- Applied deep learning to predict customer queries using NLP and NLU techniques.
- **Agile Environment:**
- Collaborated closely with deployment, test, documentation, and product management teams.
- Delivered high-quality products and services in a fast-paced environment.
- **Process Improvement:**
- Worked in an agile environment and continuously improved agile processes.
- *)Previous Professional Experience Section Continuation(*
- **Performance Optimization Models:**
- Created and optimized models for performance optimization, loan applications, customer tickets, service-level agreements, and risk management.
- **Real-Time Dashboards:**
- Applied Python embedded models in Power BI, SAS DI, and EG for real-time visualization.
- **Big Data Management:**
- Worked with databases such as Teradata, Oracle, and FSDW.
- **Machine Learning Deployment:**
- Created Dockerized applications for regression, classification, and deep learning models.
- Utilized Amazon SageMaker machine learning APIs to build custom models and deploy on AWS cloud.
- **Data Analysis:**

- Conducted sentiment analysis and image processing on various farm applications.
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## Education

*)Retaining implicit details from the original document structure(*

- **Ph.D)** .Referenced in header(
- *)Include other degrees as listed in original full PDF if available(*

## Skills & Technical Proficiencies

*)Based on the content found in experience(*

- **Machine Learning & AI** :LLMs, Multi-agent systems, NLP, NLU, Computer Vision, Time Series Analysis, Predictive Modeling, Sentiment Analysis.
- **Cloud & Deployment** :AWS (SageMaker), Docker, Cloud Computing.
- **Data Engineering & Databases** :Big Data, Teradata, Oracle, FSDW, SAS DI/EG.
- **Programming & Tools** :Python, Power BI, Algorithms for Data Science.
- **Methodologies** :Agile, Scrum, Research & Development.