DANIAL EBRAT

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HIGHLIGHTS

- Al specialist with over 7 years of experience in 2 different companies with a successful history of participation and leadership in developing over 10 nationwide, large-scale software systems as an Artificial intelligence specialist, data scientist, and project manager, leading to multiple innovative patents.
- Passion for learning new technologies and facing new challenges, especially in interdisciplinary projects, leading to the collaboration and teamwork of diverse experts from different backgrounds.
- Proficient in Digital signal processing, Speech, Audio, and music signal processing.
- Proficient in coding, debugging, designing algorithms, and creating AI models in agile and scrum methodologies.
- Proficient in data science and data engineering, implementing and deploying machine learning, deep learning, and reinforcement learning models in various industrial projects.
- Great attention to detail with organizational and interpersonal skills.
- Problem solver, analytical and critical thinker with excellent presentation skills.
- Ability to work independently, in a team, and lead projects under pressure to meet deadlines.

SKILLS

- Programming language: Python | SCALA | SQL | MATLAB
- Libraries: TensorFlow | Keras | PyTorch | NumPy | Pandas | Scikit-learn | PySpark | Matplotlib | RLLib | Ray
- Databases and Big Data: PostgreSQL | MongoDB | Apache Spark | Apache Sedona | MySQL | Snowflake
- Development and Management: PyCharm | Intellij | Jupyter | Colab | GitHub | Bitbucket | Jira | Power BI
- Programming Paradigms and Concepts: OOP | SOLID | Clean Code
- AI: ML/DL algorithms | Predictive and generative Models | Decision Analytics | Audio, speech and music signal processing | ML Pipelines

familiar with C#, C++, Java, and front-end technologies (HTML, CSS, Django, WordPress)

familiar with Amazon Web Service (AWS) | AWS S3 | Google Cloud Platform (GCP) | Azure ML

EXPERIENCE

Machine Learning Engineer | Musora Media Inc., Canada

Aug 2023 - Present

• Application of AI and Recommender systems for music education

Artificial Intelligence Teacher | Canada Super Spelling Bee, Canada

Feb 2023 – Sep 2023

- Teaching Artificial Intelligence, Data Science, and machine learning using hands-on Python projects.
- Teaching programming and algorithms for coding contests such as the United States of America Computing Olympiad (USACO) and Canadian Computing Competition (CCC).

Research Assistant | University of Windsor, Canada

Sep 2022 - Present

- Conducted extensive research on applying multi-agent deep reinforcement learning in recommender systems, utilizing advanced technologies such as Ray, RLLib, and Google RecSim.
- Explored bioinformatics topics focused on single-cell RNA sequences, cancer detection, and healthcare applications.
- Led a patent project involving the development of an Intelligent Framework for a Social Engineering Cyber Security Training program. This innovative AI-based system dynamically adjusted its behavior based on user responses, identifying vulnerable individuals and their weaknesses in relation to social engineering attacks.

Artificial Intelligence Specialist | ARAD Company, Iran

Jun 2021 – Aug 2022

- Design and development of the back end of an analytics platform application that enables quick integration and fast analysis of vast amounts of complex data from the hybrid graphs and relational databases using SCALA, Apache Spark, MongoDB, Apache Livy, and Apache Sedona running on GPU clusters.
- Implementation and deployment of various deep learning and machine learning models for +5 projects related to the aerospace industries, such as anomaly detection, trajectory prediction, super-resolution radars, decision-making, and radar fusion which led to multiple innovative patents.
- Designing the conceptual architecture for a complex supply chain network associated with the Ministry of Agriculture and Livestock to automate the food industry of Iran.
- Research and development, data engineering, data collection and analysis, data mining, and data visualization resulted in +10 national and prospected projects worth millions of dollars.
- Provided mentorship to junior developers and interns by leading real-world projects and delivering instructional lectures. Developed curricula, created project plans, and guided to ensure the successful completion of projects.

Data Scientist | Anahita Parvaz international tour and travel company, Iran

Jun 2018 – Jun 2021

- Performing data mining and data analysis methods on customer information from different sources to achieve the best marketing plans.
- Optimization and decision-making using data science and data visualization for marketing purposes resulted in a 70% income increase.
- Performing time-series data mining and predictions for financial analytics to optimize the company's principal investments.
- Technology advisor and technology planning to improve marketing procedures for new customers and the satisfaction of reliable clients by automating processes.

IT Technician | Anahita Parvaz international tour and travel company, Iran

Jun 2015 – Jun 2018

- Webmaster, web manager, and SEO specialist
- Troubleshooting software, hardware, and network problems.
- Supply management for required software, hardware, and devices.

Help Desk (intern) | Dana Energy company, Iran

Feb 2015 - Jun 2015

- Troubleshooting software, hardware, and network problems.
- Supply management for required software, hardware, and devices.

EDUCATION

Ph.D. of Computer Science

Sep 2022 – Present

University of Windsor, Ontario, Canada

M.Sc. in Computer Science

Sep 2018 - Sep 2021

Amirkabir University of Technology, Iran

Thesis Topic: Iranian modal music detection using deep neural networks (Link: https://arxiv.org/abs/2203.15335)

B.Sc. in Computer Science

Sep 2013 - Sep 2018

Amirkabir University of Technology, Iran