MARIUS-CONSTANTIN DINU

Linz, AT | dinu.marius-constantin@hotmail.com | www.dinu.at

Visionary AI Research Director and entrepreneur with a proven track record in cutting-edge machine learning technologies. Expertise spans Reinforcement Learning, Deep Learning, and Natural Language Processing. Published researcher in top-tier conferences with a passion for solving complex computational challenges and driving innovation in AI applications across industries.

EXPERIENCE

2023 – Present

CEO & Co-Founder | ExtensityAI

Leading a pioneering AI company focused on developing advanced AI/ML solutions for real-world applications. Building agentic AI workflow agents and spearheading research initiatives and product development in cutting-edge neuro-symbolic AI technologies.

April 2023 – Present

AI Research Director | Atlas | Vienna, Austria (Remote)

Directing AI research initiatives, focusing on AI, deep neural networks, and advanced machine learning techniques. Driving innovation in AI applications for business solutions in 3D virtual and augmented reality for gaming and industry.

September 2019 – 2024

Research Scientist (PhD) | Johannes Kepler University | Linz, Austria

Conducting groundbreaking research in Deep Reinforcement Learning, Domain Adaptation, Large Language Models, Continual Learning and Neuro-Symbolic AI at JKU / LIT AI Lab / Institute of Machine Learning. Publishing findings in prestigious machine learning conferences (NeurIPS, ICML, ICLR, CoLLAs) and contributing to the advancement of AI technologies. Leading workshops and international collaborations.

October 2021 – March 2023

Senior Machine Learning Researcher | Dynatrace | Linz, Austria

Austria Led research and development of sophisticated algorithms for large-scale cloud-based high-performance computing platforms. Specialized in log analytics, anomaly detection, real-time root cause analysis, and recommendation systems. Published research at top-tier machine learning conferences.

May 2018 – December 2018

CEO / Software Architect | Imagine Kara LLC | Delaware, USA

Led partnership with Apollon to create a cloud-based masternode solution for automated coin hosting. Oversaw core development, testing, and deployment processes for fintech applications focusing on cryptocurrency and distributed AI-computation.

October 2016 – August 2019

Data Scientist | CELUM GmbH | Linz, Austria

Pioneered object-in-context recognition using state-of-the-art Deep Neural Networks. Implemented advanced image classification and object recognition algorithms for similarity search in recommender systems. Integrating cutting-edge image-based search functionality into digital asset management systems.

March 2016 – September 2016

Applied Research Scientist | Siemens Corporate Research | Princeton, USA

AI enabled Cross-Platform App Development using Xamarin Development of cross-platform application for handwritten character recognition based on Support Vector Machines and Neural Networks. Elaborate use of Android NDK and Interop Services with C++ interfaces. NDK and Interop Services with C++ interfaces.

December 2010 – March 2016

Software Architect and Product Manager | Kontron | Linz, AT

Led international team in designing, developing, and deploying software solutions for self-service coin counting devices. Implemented SOAP / Web Services for interop service calls between Java and C#.NET. Coordinated and trained international support and service teams.

EDUCATION

2019 – 2024

PhD in Machine Learning | Johannes Kepler University | Linz, Austria

Focus: Reinforcement Learning, Multi-Task Learning, Continual Learning Research: Overcoming Catastrophic Forgetting in Deep Reinforcement Learning agents, Probabilistic models for pedestrian intention prediction in autonomous driving

- Completed with Distinction
- GPA: 4.0

2017 – 2019

Master's Degree in Computer Science - Data Science | Johannes Kepler University | Linz, Austria

Focus: Reinforcement Learning, Multi-Task Learning, Continual Learning Research: Overcoming Catastrophic Forgetting in Deep Reinforcement Learning agents, Probabilistic models for pedestrian intention prediction in autonomous driving

- Exchange Semester at NTUST Taipei, Taiwan
- GPA: 3.9 / 4.0

2013 – 2016

Bachelor of Science in Software Engineering | University of Applied Sciences | Hagenberg, Austria

Specialization: Software Development and Architecture, Advanced Algorithmics, Modern Software Platforms

- Internship at Siemens Corporate Research, Princeton, USA
- GPA: 3.8 / 4.0

SKILLS

- Advanced AI: Reinforcement Learning, Deep Learning, Natural Language Processing
- Programming: Python, Java, C#/.NET, JavaScript/TypeScript, C/C++
- Databases: SQL, NoSQL
- DevOps: Docker, Anaconda
- Machine Learning Frameworks: PyTorch, TensorFlow
- Web Technologies: HTML5, PHP, jQuery, CSS3, LESS
- Cloud Platforms: AWS, Google Cloud, Azure
- Scientific Writing: LaTeX

CERTIFICATIONS

- 2017 - Udacity Nano Degree: Deep Learning Foundation
- 2011 - Oracle Certified Professional: Java SE 6 Programmer
- 2010 - Microsoft Certified IT Professional Administrator

SELECTED PUBLICATIONS

- SymbolicAI: A framework for logic-based approaches and generative models and solvers (CoLLAs 2024)
- Addressing Parameter Choice Issues in Unsupervised Domain Adaptation by Aggregation (ICLR 2023)
- Reactive Exploration to Cope with Non-Stationarity in Lifelong Reinforcement Learning (CoLLAs 2022)
- A Dataset Perspective on Offline Reinforcement Learning (CoLLAs 2022)
- Align-RUDDER: Learning from Few Demonstrations by Reward Redistribution (ICML 2022)
- The balancing principle for parameter choice in distance-regularized domain adaptation (NeurIPS 2021)

LANGUAGES

- German (native)
- English (professional working proficiency)
- Romanian (conversational)

ACTIVITIES

- AI Austria | RL Community Partner
- Teaching Deep Reinforcement Leanring Courses at JKU
- Strategic Board Advisor at Atlas
- AI Board Advisor of Caitlin Krause