MAURIZIO MORRI

MACHINE LEARNING ENGINEER • 3357 OAK KNOLL DR, EMERALD HILLS, UNITED STATES • +1 650 504 9308

DETAILS

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LINKS

Github

Pubmed

SKILLS

- AI/ML-driven bioinformatics
- Machine learning model development
- Deep learning model deployment
- Data analysis
- MLOps practices
- Genomic data integration
- Biomarker discovery
- Optimizing deep learning architectures
- Scalable data pipelines

PROFILE

Dynamic Machine Learning Engineer with 10 years of experience driving impactful AI and ML solutions in computational biology and bioinformatics. Expertise in developing and deploying machine learning models, optimizing data pipelines, and integrating multi-modal genomic data for advanced analytics. Proven ability to enhance operational efficiency and foster innovation through precision medicine applications. Committed to leveraging deep learning techniques to advance predictive genomics and biomarker discovery. Passionate about transforming complex data into actionable insights to propel scientific advancements.

EMPLOYMENT HISTORY

Senior Machine Learning Engineer at Toby Health

Consultant

February 2025

- Developed ML models for early disease detection.
- Led a team integrating multi-modal genomic data for predictive analytics.
- Deployed deep learning models for biomarker discovery.
- Implemented precision medicine applications.

Fractional CTO - Machine Learning Engineer at AI Mind Machine Learning

Consultant

February 2025

- Lead AI/ML projects for large-scale model deployment and optimization.
- Develop scalable data pipelines for real-time analytics and federated learning.
- Apply MLOps best practices to streamline experimentation and model lifecycle.
- Spearhead initiatives to enhance operational efficiency and strategic growth at Toby Health.
- Optimize AI solutions to drive business success and innovation.

Director of Genomics at Altos Labs

October 2022 — February 2025

- Spearheaded AI-driven genomic analysis, employing deep learning for variant classification and disease prognosis.
- Oversaw the creation of extensive computational pipelines that merged gene expression and epigenetic information.
- Authored studies on AI's role in personalized healthcare and the integration of multi-omics data.
- Orchestrated research initiatives on AI applications in personalized medicine and multi-omics data fusion at Altos Labs.

Research and Operations Manager at CZB Stanford

April 2018 — October 2022

- Developed machine learning models for RNA-seq, ChIP-seq, and methylation profiling.
- Optimized statistical models for biomarker identification and disease risk assessment.
- Established cloud-based data lakes to streamline genomic analysis workflows.

As a Research and Operations Manager at CZB Stanford, I led the development of machine learning models for RNA-seq, ChIP-seq, and methylation profiling. I optimized statistical models for biomarker identification and disease risk assessment. Additionally, I established cloud-based data lakes to streamline genomic analysis workflows.

Researcher at Stanford University & CZB

October 2016 — April 2018

- Developed AI models for predictive genomics in collaboration with Stanford University & CZB.
- Published innovative studies on ML-driven precision medicine.
- Contributed to patents related to AI-driven computational biology techniques.
- Enhanced research outcomes through advanced AI algorithms and methodologies.

EDUCATION

Master Degree in Cybersecurity, Western Governors University, Remote

June 2023 — June 2025

Executive MBA, Quantic School of Business and Technology, Remote

December 2022

PhD, IST Austria, Vienna, Austria

September 2011 — May 2016

Major in Molecular Biology with a minor in Computer Science, Vision and Biology

Master Degree is Applied Physics, University of Trieste, Trieste

September 2008 — December 2010

Bachelor in Theoretical Physics, University of Rome La Sapienza, Rome

September 2005 — December 2008