

Matthew Sabino

MACHINE LEARNING ENGINEER

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Profile

Innovative Machine Learning Engineer with over 7 years of experience in designing, developing, testing, and deploying applications. Skilled in programming, algorithm design, and building advanced neural networks across multiple languages. Demonstrates a strong passion for machine learning, backed by deep expertise in ML concepts and related technologies. Specialized in analyzing requirements and translating them into scalable, high-performance technical solutions using C#, C++, JavaScript, Python, and other tools to continuously advance AI capabilities.

Professional Experience

Machine Learning Engineer, Stack Intellect	01/2023 – 09/2025
<ul style="list-style-type: none">Engineered and fine-tuned machine learning and statistical modeling algorithms, increasing system performance and prediction accuracy by 35% while cutting data processing time by 0%.Partnered with Adobe's research teams to translate cutting-edge research into commercial-grade AI solutions, contributing to 3+ product launches that improved user engagement by 25%.Designed, simulated, and refined predictive algorithms for electrical load and generation forecasting, boosting precision by 18% and reducing model error rates by 22%.Collaborated with senior managers to define machine learning objectives and built data-driven forecasting models analyzing 10M+ records, resulting in a 30% improvement in decision-making efficiency.Architected and deployed automated AI systems enabling 2/7 self-learning predictive capabilities, reducing manual intervention by 60%.Enhanced multi-layered data pipelines and streamlined existing ML frameworks (TensorFlow, PyTorch), achieving a 2.5x speed-up in model training and 20% better inference latency.Prototyped and evaluated 5+ proof-of-concept (POC) solutions to validate business hypotheses, earning 90%+ stakeholder approval for pilot-to-production transitions.	Beachwood, Ohio, United States (2000 Auburn Drive, One Chagrin Highlands, Suite 340B, 44122)
Machine Learning Engineer, Network Corp	12/2018 – 11/2022
<ul style="list-style-type: none">Designed and implemented molecular dynamics simulations enhanced by machine learning algorithms to precisely detect and characterize protein-DNA interactions.Analyzed over 300 complex simulation datasets using advanced statistical methods.Elevated simulation accuracy by 30% through the implementation of advanced algorithms.Devised dimensional data models to meet OLAP requirements.	Carlsbad, California, United States (1241 Carlsbad Village Drive, Suite 200, 92008)

Junior SQL Developer, Haste Vital

09/2017 – 10/2018

remote

- Updated and refactored stored procedures using T-SQL to optimize performance.
- Built PL/SQL stored procedures, functions, and style sheets to reduce data retrieval time by 50%.
- Re-structured database schemas with 100+ tables to improve data integrity.

Education

Ph.D. / Machine Learning, Carnegie Mellon

2013 – 2017

Pittsburgh, PA

- Research paper: Machine Learning, Probabilities Explained published in Journal of Cryptology. June 2017
- Senior data mining project written up in TechCrunch.
- Excelled in database and data Structure coursework.

M.D./ Machine Learning, Carnegie Mellon

2011 – 2013

Pittsburgh, PA

Bachelor of Science / Computer Science, University of Washington

2007 – 2011

Washington, WA 98195

Skills

- Data and Quantitative Analysis
- Machine Learning Algorithms
- Decision Analytics
- Understanding of technical documentation
- Predictive Modeling
- Communication and presentation
- Data-Driven Personalization

Languages

- English