

Dr. Marcus Thompson

Senior Data Scientist & ML Research Engineer

PhD in Machine Learning with 6+ years of experience developing scalable ML systems and conducting cutting-edge research. Published author with expertise in NLP, computer vision, and distributed computing.

CONTACT

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Google Scholar

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ORCID

</> CORE SKILLS

MACHINE LEARNING

PyTorch

TensorFlow

Scikit-learn

MLflow

PROGRAMMING

Python

R

SQL

Scala

BIG DATA & CLOUD

Apache Spark

AWS

Kubernetes

Docker

🌐 LANGUAGES

English NATIVE

German FLUENT - C1

French INTERMEDIATE - B2

PROFESSIONAL EXPERIENCE

Senior Data Scientist & ML Research Engineer

TECHRESEARCH LABS

2021 - Present Cambridge, MA

Leading machine learning research initiatives and developing production-scale ML systems. Responsible for research strategy, model development, and cross-functional collaboration.

Developed novel transformer architecture for multilingual NLP, achieving 15% improvement over BERT

Built end-to-end MLOps pipeline serving 50M+ predictions daily with 99.9% uptime

Led team of 6 researchers in developing computer vision models for medical image analysis

Published 8 papers in top-tier conferences (NeurIPS, ICML, ICLR) with 500+ citations

Optimized distributed training pipeline reducing model training time by 60%

PyTorch

Transformers

NLP

Research

MLflow

Kubernetes

AWS

Docker

Computer Vision

Medical AI

Team Leadership

Research

Publications

Academic Writing

Distributed Computing

GPU Optimization

Performance

Machine Learning Engineer

DATACORP SOLUTIONS

2019 - 2021 Boston, MA

Developed and deployed machine learning models for business applications. Collaborated with product teams to integrate AI capabilities into existing systems.

Built recommendation system increasing user engagement by 35% and revenue by \$2M annually

Implemented real-time fraud detection system reducing false positives by 40%

Developed automated feature engineering pipeline processing 1TB+ daily data

Created explainable AI dashboard for model interpretability and compliance

Collaborative Filtering

Deep Learning

A/B Testing

Anomaly Detection

Stream Processing

Kafka

Apache Spark

Python

Data Engineering

SHAP

LIME

Model Interpretability

Compliance

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PROFESSIONAL EXPERIENCE

Research Assistant & PhD Candidate

MIT COMPUTER SCIENCE & AI LAB

2015 - 2019 Cambridge, MA

Conducted research in machine learning and natural language processing under supervision of leading AI researchers. Teaching assistant for graduate-level courses.

- Developed novel attention mechanisms for sequence-to-sequence models
- Published 12 peer-reviewed papers with total citations exceeding 1000
- Teaching assistant for Machine Learning and Natural Language Processing courses
- Collaborated with industry partners on applied research projects

Deep Learning

Attention Mechanisms

NLP

Research

Academic Writing

Peer Review

Teaching

Curriculum Development

Mentoring

Industry Collaboration

Technology Transfer



COMPLETE TECHNICAL SKILLS

Machine Learning & AI

Deep Learning

Natural Language Processing

Computer Vision

Reinforcement Learning

Generative AI

MLOps

Model Optimization

Data Science Tools

Pandas

NumPy

Jupyter

Apache Airflow

Tableau

Power BI

Big Data Technologies

Apache Spark

Hadoop

Kafka

Elasticsearch

Redis

Cloud Platforms

AWS SageMaker

Google Cloud AI

Azure ML

Databricks

Databases

PostgreSQL

MongoDB

Cassandra

InfluxDB



REFERENCES

Professional references available upon request.