

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](https://scholar.google.com/citations?user=HhXHgQAAAAJ&hl=en)

[ORCID](https://orcid.org/0000-0002-183X-000X)

</> 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



PROFESSIONAL EXPERIENCE

Research Assistant & PhD Candidate

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.