



# NATNAEL TAMIRAT

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## SUMMARY

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- I am a Master's degree student at Hubei University of Technology. My current focus involves developing highly efficient machine learning algorithms and models, specializing in large language models (LLMs), across various platforms. This includes optimizing model architectures, implementing algorithms for distributed computing, designing scalable training pipelines, and deploying AI solutions for real-world applications.
- Before that, I graduated from Jingchu University of Technology with a BSc, in Computer Science (with Honors). As my undergraduate thesis, I designed Text detection and image classification in IoT.
- I apply the Bellman Equation in the optimization of my life, which is a Markov decision process, but the future discount factor  $\gamma$  in the equation might be small and I would often be trapped in the local optimum.

## EDUCATION

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### Masters of Computer Science and Technology

Sep 2023 - Present

Hubei University of Technology.

- Major in Computer Science.
- current focus involves conducting research and developing highly efficient machine learning algorithms, models and specializing in large language models.

### Bachelor of Computer Science and Technology with Honours

Sep 2019 - Jul 2023

Jingchu University of Technology.

- Major in Computer Science and Technology.
- Thesis on "Text detection and image classification in IoT"

## WORK EXPERIENCE

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### Frontend developer, Marcon Technologies(Remote intern)

May 2023 - July 2023

- I crafted and fine-tuned a responsive user interface, achieving a notable enhancement in performance.
- I spearheaded testing procedures to guarantee alignment with industry benchmarks and standards.
- Leveraging my technical proficiency, I played a pivotal role in slashing system failures.

### Maintenance technician, Meti Fikadu Lemmesa General Trading(onsite)

Sep 2018 - Aug 2019

- I was maintaining and troubleshooting computer systems, networks, and other IT infrastructure.
- Which includes installing and configuring hardware and software, diagnosing technical issues, repairing faulty equipment, and ensuring that IT systems run efficiently.

## ADDITIONAL INFORMATION

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- **Technical Skills:** Optimizing model architectures, implementing algorithms for distributed computing, designing scalable training pipelines, and deploying AI solutions for real-world applications.
- **Languages:** English, Chinese, Amharic.
- **Certifications:** TensorFlow Developer Professional Certificate, Deep Learning Specialization Certificate, Natural Language Processing Specialization.
- **Awards/Activities:** Actively participated in the "llama2" open-source community outreach model, promoting STEM education and inspiring students.
- **Tools:** Python,C++,Javascript, MERN stack, Matlab

## STRENGTH

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- Research, Planning, Management, Teamwork



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## 概括

- 我是湖北工业大学的硕士生。我目前的工作重点是开发跨各种平台的高效机器学习算法和模型，专攻大型语言模型 (LLM)。这包括优化模型架构、实现分布式计算算法、设计可扩展的训练管道以及为实际应用部署 AI 解决方案。

在此之前，我毕业于荆楚理工大学，获得计算机科学学士学位（荣誉学位）。作为我的本科论文，我设计了物联网中的文本检测和图像分类。

我在人生的优化中运用了贝尔曼方程，这是一个马尔可夫决策过程，但方程中未来的折现因子 $\gamma$ 可能很小，我经常陷入局部最优。

## 教育

计算机科学与技术硕士

2023 年 9 月 - 至今

湖北工业大学。

计算机专业。

- 目前的重点是研究和开发高效的机器学习算法、模型，并专门研究大型语言模型。

计算机科学与技术荣誉学士学位

2019 年 9 月 - 2023 年 7 月

荆楚理工大学。

计算机科学与技术专业。

论文主题为“物联网中的文本检测和图像分类”

## 工作经验

Marcon Technologies 前端开发人员（远程实习生）

2023 年 5 月 - 2023 年 7 月

- 我精心设计并微调了一个响应式用户界面，实现了性能的显著提升。
- 我领导了测试程序以确保符合行业基准和标准。
- 利用我的技术能力，我在减少系统故障方面发挥了关键作用。

Meti Fikadu Lemmesa General Trading 维护技术员（现场）

2018 年 9 月 - 2019 年 8 月

- 我负责维护和排除计算机系统、网络和其他 IT 基础设施的故障。
- 其中包括安装和配置硬件和软件、诊断技术问题、修理故障设备以及确保 IT 系统高效运行。

## 附加信息

- 技术技能：优化模型架构、实现分布式计算算法、设计可扩展的训练流程以及为实际应用部署 AI 解决方案。
- 语言：英语、中文、阿姆哈拉语。
- 认证：TensorFlow 开发人员专业证书、深度学习专业化证书、自然语言处理专业化证书。
- 奖项/活动：积极参与“llama2”开源社区拓展模式，推动STEM教育，激励学生。
- 工具：Python、C++、Javascript、MERN 堆栈、Matlab

## 力量

- 研究、规划、管理、团队合作