谢明

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教育背景

复旦大学　计算机方向　硕士　　2020.09-2023.01

✧ **课程**：统计学，图像处理，信号与系统，计算机视觉，模式识别，数值分析，深度学习，强化学习，应用数值分析等

同济大学　土木工程桥梁方向　本科　　2015.09-2019.06

✧ **课程**：线性代数、数据结构，概率论，弹性力学，结构力学，流体力学等

临川二中　理科　高中　　2012.09-2015.06

✧ **高考**：全省六百多名；**竞赛**：自学获得江西省数学联赛一等奖。

工作经历

智慧树　AI Agent 算法工程师　　2023.07-2025.12

✧ **RAG 系统搭建**：搭建"Query 理解 → 检索 → 重排 → 生成 → 自检"端到端管线；1）Query 理解含意图分类、实体/约束抽取（NER）与 Query 改写/扩展；2）检索采用 Embedding+BM25 混合召回与 BGE 重排；3）生成采用结构化&模块化 Prompt、编号引用与长度/语气控制；4）并加入一致性自检与合规模块（ReAct）；相较 Naive RAG 显著降低幻觉（Hallucination ↓73%），准确率与满意度提升（Hit@5 ↑37%）。

✧ **知识库工程**：1）对"高校+企业"文档构建解析流水线（解析/OCR→清洗→语义分块+Overlap 设置→Embedding→索引）；2）向量库（Milvus）+ BM25 混检；3）配合来源/时间/类型元数据过滤与增量更新；4）在 Top-K 等参数调优下，实现毫秒级召回与稳定相关性（MRR ↑27%、P95 延迟 131ms）。

✧ **生成优化**：1）Prompt 适配：建立各场景（客服、报告、FAQ）下 Prompt 模板库；2）QA 对构建：多文档逐段问答+汇总策略；3）校验复核：引入"答案-上下文"相似度校验与 self-consistency 复核、风险词过滤，输出可追溯且可审计。

美团　算法策略工程师　　2023.01-2023.07

✧ **端智能应用全链路策略优化**：在端智能链路上负责收集并分析用户在店内对各类菜品的行为，包括查看、点击和加购等。构建新的召回链路，成功地提高了框内词 UV_CTR **13%**，推动了搜索 DAU 的增长 **0.08%**。

✧ **词服务链路策略优化**：在词服务方面，通过样本归因等优化手段，成功地提高了框内词 UV_CTR **2.07%**，推动了搜索发现 UV_CTR 的增长 **0.33%**，促使了搜索 DAU 的增长 **0.07%**。

实习经历

粤港澳大湾区数字经济研究院　智能优化算法工程师　　2022.09-2022.12

✧ **道路自动化设计**：预处理获取的图纸信息，构建 Minkowsky Sum 扩张的多边形区域，对于道路可行域构建三角划分，最终使用 Medial Axis 进行道路全局设计。

上海跳跃网络有限公司　强化学习研究员　　2022.01-2022.06

✧ **PPO 分布式架构**：为了实现强化学习在 MOBA 游戏领域上的 super-human 效果，构建了 PPO 分布式架构，该架构采用 Beta 分布的输出，针对 Non-IID 数据的优化器设计以及针对 Multi-Continuous 动作空间的损失函数。为增强架构的可扩展性，解耦训练过程中的采样器，存储器和训练器。实验结果在 MicroRTS 训练环境中实现将训练时间由原先的 13 个小时降低至 2 小时内。

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Education Background

Fudan University | Computer Science | Master 2020.09–2023.01

✧ **Courses**: Statistics, Image Processing, Signals and Systems, Computer Vision, Pattern Recognition, Reinforcement Learning, Applied Numerical Analysis, etc.

Tong Ji University | Civil Engineering Bridge | Undergraduate 2015.09–2019.06

✧ **Core courses**: Linear Algebra, Data Structures, Probability Theory, Elastic Mechanics, Structural Mechanics, Fluid Mechanics, etc.

Linchuan No. 2 High School | Science 2012.09–2015.06

✧ **College Entrance Examination**: Ranked among the top six hundred; **Competitions**: Self-studied and won the first prize in the Jiangxi Provincial Mathematics Competition.

Work Experience

Company | Algorithm Strategy Engineer 2023.07–2025.12

✧ **Deployment of the RAG System**: Built an end-to-end pipeline encompassing "Query Understanding → Retrieval → Generation → Self-Verification." Query Understanding includes intent classification, entity/constraint extraction (NER), and query rewriting/expansion (QE/QR/multi-turn coreference resolution). Retrieval adopts a hybrid recall strategy combining Dense and BM25 methods, followed by BGE re-ranking. Generation leverages structured prompts, numbered references, and length/tone control, incorporating consistency self-checks and compliance modules. Compared to simple RAG, this significantly reduces hallucination (↓73%) and improves accuracy and user satisfaction (Hit@5 ↑37%).

✧ **Knowledge Base Engineering**: Developed a document processing pipeline for both "university + enterprise" data sources (parsing/OCR → cleansing → semantic chunking with overlap → embedding → indexing). Utilized a hybrid retrieval system combining a vector database (Milvus) and BM25, with metadata filters (by source, time, type) and support for incremental updates. Through tuning parameters such as Top-K and efSearch, achieved millisecond-level recall and stable relevance (MRR ↑27%, P95 latency: 131ms).

✧ **Generation Optimization**: Established a library of prompt templates (for customer service, reports, FAQs), supporting multi-document segment-level QA and summarization strategies. Integrated "answer-to-context" similarity checks, self-consistency verification, and risk word filtering to ensure traceable and auditable outputs.

Mei Tuan | Algorithm Strategy Engineer 2023.01–2023.07

✧ End-to-end Intelligent Application Strategy Optimization: Collected and analyzed user behavior in stores for various dishes, including viewing, clicking, and adding to cart. Constructed new recall links, successfully increasing in-box term UV_CTR by **13%** and promoting a **0.08%** increase in search DAU.

✧ **Term Service Chain Strategy Optimization**: In terms of term services, optimized using sample attribution and other methods, successfully increasing in-box term UV_CTR by **2.07%,** promoting a **0.33%** increase in search discovery UV_CTR, and driving a **0.07%** increase in search DAU.

Internship Experience

IDEA | Intelligent optimization algorithm engineer 2022.09–2022.12

✧ **Automated Road Design**: Preprocessed the acquired drawing information, constructed polygonal areas expanded by Minkowsky Sum, triangulated the feasible road area, and used Medial Axis for global road design.

Shanghai Jump Network Technology Company | RL Research Assistant 2022.01–2022.06

✧ **PPO distributed architecture**: With the goal of achieving the super-human effect of reinforcement learning on MOBA games domain, constructed PPO distributed architecture. The architecture used Beta-distributed output, new optimizer for Non-IID data, and loss function for Multi-Continuous action Spaces. Decoupled sampler, memory, and trainer to enhance the scalability. It had been achieved to reduce the training time from 13 hours to less than 2 hours in MicroRTS environment.