

Khabibillo Gulomov

AI Engineer and Researcher · LLMs, retrieval-augmented generation, AI agents

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Education

Kyungpook National University, Daegu, South Korea

Expected Aug 2027

B.S. in Computer Science

- KNU Best Student Scholarship, awarded twice (top ~7%)

Publication

Evidence Position Sensitivity Across Document-Count Conditions in Multi-Document QA

2026

Khabibillo Gulomov (sole author). 7th Korea Artificial Intelligence Conference (Korea AI 2026), AI session, paper 0017. Accepted for publication.

- Controlled study of how the position of supporting evidence (beginning, middle, end) affects multi-document QA at 8, 10, 15 and 20 documents, with total input length held fixed.
- 6 LLMs from 3B to 72B (Llama 3.2 3B, Qwen2.5 7B, Gemma 2 9B, Gemma 3 27B, Llama 3.3 70B, Qwen2.5 72B); 24 conditions with 2,417 examples each.
- 72 document-count contrasts tested with paired bootstrap and sign-flip tests. The best evidence position is model-dependent, can change with document count, and differs for higher-hop questions.

Research experience

Undergraduate Researcher, Data and Language Intelligence Lab, Kyungpook National University

Jun 2026 – Sep 2026

- Reproduced and evaluated Search-R1 search-augmented reasoning on NQ, TriviaQA, PopQA, HotpotQA, 2WikiMultiHopQA, MuSiQue and Bamboogle, analyzing search behavior on knowledge-intensive and multi-hop QA.
- Evaluated retrieval-based reasoning (SeaKR) and tool-augmented LLMs (ToolBench / ToolLLM): tool selection, retrieval, and how reliably tool-using models produce correct results.
- Built the experiment and evaluation pipelines in Python with PyTorch, Hugging Face and vLLM, including statistical significance testing.

Engineering experience

Founder and Lead Software Engineer, Mahallify, Tashkent, Uzbekistan

2025 – present

Location-based platform for discovering local communities, activities and meetups. Ranked in the top 5% of UzCombinator applicants.

- Designed and built the backend services, REST APIs and real-time messaging system with NestJS, Socket.IO and Redis.
- Reduced public meetup-feed latency by 38% and SQL execution time by 24% through PostgreSQL indexing and query access-pattern changes.
- Refactored the monolithic codebase into a modular architecture following Clean Architecture and SOLID principles.
- Build, deploy and operate the full platform: product direction, Next.js frontend, PostGIS geospatial features, Prisma and Docker.

Tech: Next.js, NestJS, PostgreSQL / PostGIS, Prisma, Redis, Socket.IO, Docker mahallify.com

OCR-based system that verifies Korean administrative documents and decides READY, REVIEW_REQUIRED or NEEDS_CORRECTION. Prototype.

- Led development of the document pipeline, from PDF text extraction and PaddleOCR through classification, field extraction and rule validation to human review.
- Built a FastAPI / PostgreSQL backend with 13 configurable validation rule types, 23 API endpoints and 12 tables, covered by 557 passing tests in GitHub Actions CI.
- Designed a fail-safe evaluation with frozen scorers, single-use hold-out sets and error injection: 0 false READY decisions, 240/240 digital fields correct, and scanned-document review load cut by 60–64% (synthetic data).

Tech: Python, FastAPI, PostgreSQL, PaddleOCR, PyMuPDF, Docker github.com/khabibro/ADVS

Leadership and teaching

Microsoft Student Ambassador, Microsoft

2026 – present

- Mentored and supported 50+ students and developers in South Korea in AI, software development and Microsoft technologies.

[Official Microsoft Student Ambassador profile](#)

Teaching Assistant, Programming Fundamentals, Kyungpook National University

Sep 2026 – present

- Support students in C/C++: pointers, arrays, functions, sorting, basic data structures and debugging.

Honors

UzCombinator	Mahallify ranked in the top 5% of UzCombinator applicants
KNU	Best Startup and Best Startup Pitch, KNU Startup Design (Mahallify)
KNU	Best Student Scholarship, awarded twice (top ~7%)

Skills

Programming	Python, C, C++, TypeScript, JavaScript
AI / ML	PyTorch, Hugging Face, vLLM, retrieval-augmented generation, information retrieval, LLM evaluation, AI agents, PaddleOCR, statistical testing
Backend	NestJS, FastAPI, Next.js, PostgreSQL / PostGIS, Prisma, Redis, Socket.IO
Tools	Docker, Linux, Git, GitHub
Languages	Uzbek (native); English (full professional proficiency); Korean (full professional proficiency, TOPIK Level 5); Russian (limited working proficiency)

Research interests

Evidence-grounded and reliable LLMs, retrieval-augmented and search-augmented reasoning, multi-document QA, LLM evaluation, tool-augmented agents.