

# Shashank Kumar

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Github: wgetShashank

## EDUCATION

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**Indian Institute of Technology (BHU), Varanasi**  
B.Tech in Pharmaceutical Engineering & Technology

2022 – 2026  
CGPA: 8.23

## SKILLS

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**Languages:** Python, Java, Golang, C++, TypeScript, SQL, YAML

**AI / ML:** LLM APIs, Prompt Engineering, LLM Evaluation, Embeddings, Semantic Similarity, NLP Pipelines, RAG Systems, Experiment Design, Structured Output Generation, PyTorch (basic), TensorFlow (basic)

**Cloud & DevOps:** AWS (EC2, S3, Lambda, DynamoDB), Microsoft Azure, Docker, Linux, CI/CD, Kubernetes

**Data & Integration:** REST/GraphQL APIs, Microservices, Vector Databases, RethinkDB, DynamoDB, MongoDB, MySQL, Data Modeling

**Frameworks/Tools:** Node.js, Android (Jetpack Compose), Git/GitHub, Jupyter Notebooks, Postman, JUnit, Data-dog

**Certifications:** Google Associate Android Developer; Oracle Certified Associate, Java SE 8 Programmer

## EXPERIENCE

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### Pattern

Pune, India

*Software Development Intern*

May 2025 – Jul 2025

- Designed and optimized Node.js microservices handling large-scale product, inventory, and order ingestion across e-commerce platforms.
- Integrated third-party APIs with resilient retry logic, backoff strategies, and idempotent processing workflows.
- Built scalable data pipelines using RethinkDB and AWS DynamoDB enabling low-latency reads and high-throughput writes.
- Containerized backend services using Docker improving deployment reliability across environments.
- Implemented monitoring and debugging workflows to identify bottlenecks and improve system reliability.

### Google Summer of Code (Robolectric)

Remote

*GSoC Contributor*

May 2024 – Jul 2024

- Enhanced Robolectric to support testing of Android App Bundles and Dynamic Feature delivery workflows.
- Investigated Android Gradle Plugin internals and modular application architectures.
- Built Java-based testing scaffolding for Split APK validation and automated module-level testing via Gradle tasks.

### Linux Foundation (LFX Mentorship) — Hyperledger Web3j

Remote

*Open Source Mentee*

2024

- Contributed to blockchain infrastructure tooling within the Hyperledger ecosystem.
- Implemented features and fixes following open-source workflows including code reviews and CI validation.
- Collaborated with maintainers to improve developer tooling and library reliability.
- Worked within large distributed codebases using structured contribution processes.

## PROJECTS

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### Opined — AI-driven Opinion Platform (Kotlin, Python, Node.js, AWS, LLM APIs)

- Designed AI-assisted moderation and ranking pipelines using NLP models and LLM APIs for large-scale user-generated content analysis.
- Built classification and evaluation workflows leveraging embeddings and semantic similarity signals for content scoring.
- Developed experimentation pipelines to evaluate model outputs and optimize prompt-driven workflows.
- Implemented data processing pipelines for text ingestion, feature extraction, and analytics-driven feedback loops.
- Deployed scalable cloud infrastructure supporting 10k+ users; selected for Google Appscale Academy (Top 100 startups).

### LLM Evaluation & AI Research Experiments

- Built LLM evaluation pipelines comparing structured outputs across prompt variants using automated scoring workflows.
- Implemented embedding-based semantic similarity and clustering pipelines for text comparison and novelty detection.
- Designed multi-step prompt workflows for structured JSON generation and reasoning evaluation.
- Developed retrieval-augmented generation (RAG) prototypes using vector databases and embedding search.
- Conducted controlled experiments analyzing model behavior across prompts and dataset variations.