

# Mayank Sharma

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## Professional Summary

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Full Stack Software Engineer focused on developer tooling, AI-integrated systems, and scalable backend architecture. Experienced with React, Next.js, TypeScript, Node.js, Docker, Linux, and modern API-driven workflows. Interested in systems engineering, open-source software, and building production-oriented developer products.

## Projects

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### METHER OS | FastAPI, React, TypeScript, Docker, Linux

May 2025 – Present

- Built a self-hosted AI operating system integrating voice interaction, WhatsApp automation, Gmail workflows, calendar scheduling, persistent memory, and local LLM routing.
- Architected a production-style monorepo containing 14 agent tools, FastAPI backend services, React dashboard, voice sidecar, WhatsApp bridge, and async orchestration systems.
- Implemented AI-assisted workflows for automated WhatsApp responses, email management, terminal execution, filesystem operations, and contextual memory retrieval.
- Integrated Whisper STT, Piper TTS, SQLite memory systems, Docker-based workflows, and Google Workspace APIs into a unified assistant platform.
- Designed modular backend infrastructure supporting real-time event streaming, tool execution, and multi-service orchestration across Python and Node.js runtimes.

### AI Dataset Quality Inspector | FastAPI, Pandas, SciPy, React

Feb 2026 – Present

- Built a dataset validation platform performing statistical drift analysis, fairness auditing, missing-value inspection, and schema validation for ML datasets.
- Implemented KS-test drift detection, PSI divergence analysis, and EEOC 4/5ths-rule fairness validation using FastAPI, Pandas, and SciPy.
- Reduced manual dataset triage time by an estimated 65% through automated schema previews, null highlighting, and local caching workflows.
- Expanded validation coverage from 2 to 5 automated statistical checks while reducing schema preview latency to under 5ms.

### GitHub Repo Analyzer | Python, GitHub API, React

Feb 2026 – Present

- Developed a repository intelligence platform generating codebase metrics, dependency insights, language analysis, and AI-assisted repository summaries.
- Integrated GitHub API workflows for repository indexing, metadata extraction, technology analysis, and automated reporting pipelines.
- Implemented local caching systems and repository history restoration workflows to reduce redundant API requests and improve usability.

## Open Source Experience

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### Sktime / Skpro

Mar 2026 – Present

Open Source Contributor

Remote

- Created 6+ pull requests across documentation fixes, bug reports, testing improvements, and maintenance refactoring workflows in the skpro forecasting ecosystem.
- Successfully merged 4 pull requests improving code quality, validation logic, maintainability, and documentation consistency.
- Identified and reported a bug in `SquaredDistrLoss` where `log_pdf` was incorrectly used instead of `pdf` in loss computation logic.
- Implemented refactoring improvements eliminating duplicated feature-validation logic across `CyclicBoosting` workflows while maintaining CI compliance and test coverage.
- Worked with collaborative OSS workflows including Git, CI pipelines, code reviews, pre-commit tooling, and contributor guidelines.

## Education

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### JECRC University

Expected Apr 2029

B.Tech in Computer Science Engineering (Kalvium Program)

Jaipur, Rajasthan, India

- Focused on full stack development, backend systems, AI-integrated applications, and scalable software engineering practices.
- Actively exploring Rust, Linux systems, system design, open-source collaboration, and developer tooling.

### Vidya Niketan Birla Public School

Apr 2025

Senior Secondary Education (PCM with Computer Science)

Pilani, Rajasthan, India

- Awarded “IT Wizard” during Annual Day 2025 for excellence in computer science and technology-related activities.
- Recognized as “Best Website Creator” in 2024 for web development and design projects.
- Secured 2nd rank in Web Development and 5th rank in Video Editing at IPSC IT Fest 2025.

## Leadership

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### Smart India Hackathon

Team Lead

Sep 2025  
Jaipur, Rajasthan, India

- Led a multidisciplinary team during Smart India Hackathon project planning and technical solution development.
- Coordinated frontend/backend workflows, task distribution, project timelines, and collaborative engineering discussions.
- Presented implementation strategies and scalable solution approaches during evaluation rounds.

## Skills

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**Languages:** JavaScript, TypeScript, Python, Rust, C++

**Frontend:** React.js, Next.js, Tailwind CSS, HTML5, CSS3

**Backend:** Node.js, Express.js, FastAPI, RESTful APIs, Authentication Systems, Microservices Architecture

**Databases & Infra:** MongoDB, PostgreSQL, Redis, SQLite, Docker

**Tools & Platforms:** Git, GitHub, Linux, AWS, Kubernetes, Vercel

**Software Engineering:** Data Structures & Algorithms, System Design, CI/CD, Agile Development, Unit Testing, API Integration, Open Source Collaboration