

# Animesh Sharma

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## EDUCATION

**SHAH AND ANCHOR KUTCHHI ENGINEERING COLLEGE (SAKEC)** Mumbai, India *B.Tech in Computer Science Engineering* Expected July 2028

Cumulative GPA: 9.07/10 (Sem 3); Pursuing Honors Degree in AI & Data Science

Relevant Coursework: Data Structures & Algorithms; Operating Systems; Database Management Systems; Web Technologies; Object-Oriented Programming

## EXPERIENCE

**Full Stack Developer** — Independent Projects *2023 – Present*

*Building production-grade applications across frontend, backend, and deployment*

- Architected and deployed five full-stack applications using React, Django, FastAPI, and PostgreSQL; deployed on production infrastructure (Render, Hugging Face Spaces) with CI/CD pipelines
- Implemented secure authentication systems using JWT tokens and role-based access control (RBAC) across multiple projects
- Designed RESTful APIs with proper error handling, validation, and database schema optimization for scalability
- Managed version control using Git and GitHub, implementing collaborative development workflows

## UNIVERSITY PROJECTS

**LawLens-X: AI-Powered Contract Risk Intelligence** *FastAPI, React, TypeScript, Ollama*

Developed a production-grade multi-agent contract analysis system with deterministic grading and explainable AI

- Engineered five-agent architecture: ClauseParser, RiskAnalyzer, RiskScorer, ScenarioSimulator, and NegotiationAdvisor using FastAPI and Ollama
- Implemented hybrid analysis (deterministic rule-based + LLM-powered contextual analysis) with 75-85% accuracy on legal risk detection
- Built real-time Server-Sent Events (SSE) streaming backend for progressive UI updates during contract analysis
- Designed TypeScript/React frontend with Tailwind CSS for contract input, risk visualization, and suggestion display
- Added robust fallback systems: JSON parsing recovery, connection retry logic, timeout handling for reliable LLM integration

**Triage Assistant: AI-Powered Emergency Medical Triage** *FastAPI, React, ChromaDB, Python, sentence-transformers*

Developed intelligent medical triage system for emergency assessment with sub-500ms latency

- Built semantic retrieval pipeline using ChromaDB and sentence-transformers to match symptoms to clinical protocols with 99% accuracy
- Engineered rule-based clinical reasoning engine returning triage level (Red/Yellow/Green), recommended actions, and risk scores
- Optimized latency: vector search (120ms) + context pruning (40ms) + AI reasoning (150ms) = 310ms total response time
- Designed React scrollytelling frontend enabling guided, step-by-step emergency assessment workflows
- Deployed and benchmarked on Hugging Face Spaces with deterministic evaluation framework

[github.com/AnimeshhXD/triage-assistant](https://github.com/AnimeshhXD/triage-assistant)

**Workplace Operations Agent: Deterministic Multi-Task AI Environment** *FastAPI, Docker, Python, OpenEnv*

Built OpenEnv-compatible AI environment for evaluating workplace task management across email, Slack, and calendar

- Architected deterministic grading system evaluating email classification, Slack incident response, and calendar scheduling with reproducible scores
- Implemented three difficulty levels with strict task ordering constraints (Easy: classification; Medium: conflict resolution; Hard: coordinated incident response)
- Designed dense reward shaping providing partial credits for intermediate actions and penalties for ordering violations
- Containerized with Docker and deployed on Hugging Face Spaces with FastAPI + WebSocket server
- Evaluated agents end-to-end using oracle baseline (always scores 1.0) and LLM inference modes

[github.com/AnimeshhXD/workplace\\_ops\\_agent](https://github.com/AnimeshhXD/workplace_ops_agent)

### **BenefitBridge: Government Welfare Scheme Discovery Platform**

*React, Django, PostgreSQL*

Live application connecting 1,000+ users to relevant government welfare schemes

- Designed and implemented eligibility-matching algorithm scoring multiple welfare schemes against user criteria
- Built role-based dashboards (user and administrator views) with secure JWT-based backend REST APIs
- Engineered PostgreSQL database schema with proper indexing and query optimization for sub-100ms response times
- Implemented automated CI/CD pipelines and deployed on Render for continuous deployment

[github.com/AnimeshhXD/BenefitBridgeV2](https://github.com/AnimeshhXD/BenefitBridgeV2)

### **Mavira OS: Custom Linux Distribution**

*Debian, Bash, Linux, AppArmor*

Engineered hardened Linux distribution built on Debian live-build

- Configured XFCE desktop environment, system services, and boot process from scratch
- Hardened system security using AppArmor policies and Fail2Ban intrusion prevention
- Optimized system performance and usability through custom kernel configurations

[animeshhxd.github.io/Mavira/](https://animeshhxd.github.io/Mavira/)

### **Personal Health Coach: Multi-Agent AI Assistant**

*Python, LLMs*

Designed modular multi-agent system for personalized health guidance

- Implemented memory compression and cost-aware execution for efficient token usage
- Integrated streaming responses for real-time user interaction

[github.com/AnimeshhXD/Personal-Health-Coach](https://github.com/AnimeshhXD/Personal-Health-Coach)

## **ACTIVITIES**

**SAKEC COMPETITION CELL** — Documentation Team Member

*2024 – Present*

Coordinate documentation and content strategy for hackathons and technical competitions; facilitate communication between organizing teams

**Hackathon Participation:** Meta Scaler School (Workplace Ops Agent); HPE Intel Hackathon (Personal Health Coach, Triage Assistant); SIH 2025-26; Meta IoT Hackathon; ByteCamp

## **ADDITIONAL**

**Programming Languages:** Java (Core); Python (Advanced); JavaScript (Intermediate); TypeScript (Intermediate); C (Intermediate); SQL (Advanced)

**Frontend:** React; HTML5; CSS3; Tailwind CSS; Responsive Web Design

**Backend:** FastAPI; Django REST Framework; REST API Design; JWT Authentication; RBAC Implementation; Spring Boot (Learning)

**Databases:** PostgreSQL (Advanced); SQLite; Schema Design; Query Optimization; ChromaDB (Vector Search)

**Tools & Platforms:** Git & GitHub; Postman; Linux & Bash; Docker; CI/CD Pipelines (Render); Hugging Face Spaces

**AI & ML Tools:** Ollama; sentence-transformers; LLM Integration; Claude Code; Cursor; Windsurf; Antigravity

**Emerging Technologies:** Data Structures & Algorithms; System Design Fundamentals; Linux & OS Internals; Vector Databases; Semantic Search; Multi-Agent Systems