

# Akshat Gupta

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## EDUCATION

### KIET GROUP of Institutions - AKTU

Bachelors in Computer Science with specialization in AI (GPA: 7.8)

Ghaziabad, Uttar Pradesh

Nov. 2022 – Present

### Maa Bharti International - CBSE

Intermediate (Class 12th) - 85%

Kota, Rajasthan

May. – Mar 2022

## EXPERIENCE

### VibeMonitor | Software Engineer | Full Time | website

Sep 2025 – Present

- Designed scalable backend **microservices** using FastAPI and Python, implementing automated **Root Cause Analysis (RCA)** engine that analyzes repository commit history and code changes to identify error origins, reducing incident investigation time by **65%**.
- Built **GitHub** integration ecosystem by developing **GitHub App** and **OAuth App**, enabling seamless access to repositories, commit metadata, and pull request history for automated **RCA** workflows and real-time code quality assessment.
- Deployed **AWS CloudWatch** integration with **IAM** role-based access control for centralized **log aggregation**, configuring custom CloudWatch Log Groups and Metric Filters to capture application and infrastructure logs across distributed services.
- Orchestrated multi-platform **observability** stack by integrating **New Relic APM**, **Datadog** monitoring, and **Grafana** visualization dashboards, creating unified log and metrics pipeline that correlates application performance data from **15+ microservices**.
- Applied **RED (Rate, Errors, Duration)** and **USE (Utilization, Saturation, Errors)** methodologies to establish comprehensive **observability** framework, implementing custom **Prometheus** metrics and alerting rules for service health monitoring during audit processes.
- Enhanced **CI/CD pipeline** architecture with multi-stage job workflows and **Google Cloud Storage (GCS)** caching system, implementing dependency caching and artifact reuse strategies that reduced build execution time by **30%** across 20+ deployment pipelines.

### Mark AI | Full Stack Developer | Freelance | website

Dec 2024 – Jan 2025

- Created advertisement booking platform with **FastAPI**, integrating **Screenox REST API** for real-time screen inventory management and campaign scheduling across **100+ digital displays** with payment gateway integration.
- Configured **load balancer** with **round-robin distribution** across multiple FastAPI instances, implementing **connection pooling** and **async request handling** to optimize concurrent booking workflows.

### Sakhi Women | Full Stack Developer | Freelance | website

Jan 2025 – Feb 2025

- Built ride-booking platform with **RBAC**, **OTP-based passwordless auth**, and time-based **dynamic pricing** (1.5x night multiplier), optimized for **1500-2000 concurrent users** with **B-tree indexing** reducing query latency by **70%**.
- Integrated **Twilio WhatsApp API** for multi-stage notification workflows (OTP, assignments, driver alerts) and implemented **cron-based recurring scheduling** for subscription rides with automated driver assignment logic.

### iTax Easy | Full Stack and Server Developer | Internship | website

Feb 2025 – Sep 2025

- Built high-performance web and mobile applications using **PostgreSQL**, **NextJS**, **Prisma**, hPanel, and **Android Studio**, decreasing load times by **45%** and increasing user retention by **30%**.
- Redesigned **database architecture** that accelerated query response times by **60%** and reduced server costs by **30%**.

### PrepSaarthi | Co-Founder & Technical Lead (Mentor-based Startup)

Nov. 2024 – Jul 2025

- Founded and led Prepsaarthi.com, a mentor-driven edtech startup focused on career guidance and student upskilling.
- Created 5+ features using **React.js** and **MongoDB**, integrated secure **RESTful APIs** with **OAuth 2.0**, boosting engagement by **40%**.

## PROJECTS

### Legal E-Library | Angular, Express.js, Prisma ORM, Node.js, PostgreSQL, CSS

Jun 2025 – Present

- Launched a digital library platform for legal case laws with advanced search and filtering, improving research efficiency by **40%**.
- Designed responsive UI with **Angular** providing seamless access to **10,000+ legal documents** across 50+ categories.
- Integrated **RESTful API** using **Express.js** and **Prisma ORM** that optimized query performance by **60%**.

### Cosmic-Trek (Orrery-App) | ThreeJs, pynb, WebGL, D3Js, HTML, CSS, Javascript, Redux

Oct 2024 – Dec 2024

- Constructed interactive **3D solar system simulator** featuring 8+ celestial bodies and **50+ exoplanets**, achieving **60%** reduction in rendering time.
- Programmed **physics-based satellite launch simulator** with 5+ orbital patterns, decreasing computation load by **30%**.
- Created realistic collision and gravitational simulations with 10+ custom impact effects, resulting in **75%** increase in user engagement.

## TECHNICAL SKILLS

**TechStack:** ReactJS, NodeJS, ExpressJS, NextJS, MongoDB, Tailwind CSS, Firebase, EmailJs, AOS, Prisma, Psq, Vite, Material-UI, Android Studio, Angular, TypeScript, RxJS, HttpClient (Angular), FastAPI, Redis, Kafka, Python

**Observability & Monitoring:** New Relic APM, Datadog, Grafana, Prometheus, OpenTelemetry, AWS CloudWatch, Loki, Tempo, Mimir, Signoz, RED Methodology, USE Methodology

**Developer Tools:** Git, GitHub Apps, Docker, hPanel, Postman, Prisma Studio, pgAdmin4, Swagger, incident.io, AWS IAM, OAuth 2.0, JWT, WebSocket