

SAUBHAGYA KASHYAP

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EXPERIENCE

Software Intern – Seqtoo Softwares (Remote)

July – Dec 2025

- **Thajaa | E-Commerce Backend** — *No backend existed to handle concurrent orders, real-time tracking, or payments for a live grocery platform. **Rebuilt the entire infrastructure:** RESTful APIs, order lifecycle & tracking system, RBAC, inventory management, cart logic, and payment gateway on PHP/MySQL, now **servicing 500+ concurrent users** in production with real-time order notifications.*
- **EduHub | Government School Platform | [GitHub](#)** — *20+ Telangana government schools had zero digital infrastructure for academic operations. **Led end-to-end development** of a production multi-tenant SaaS: RBAC dashboards (principal/teacher/student), CMS, digital notice board, admissions workflow, and timetable system — deployed across **50+ schools**, supporting **500+ concurrent users** with **sub-100ms** response via MySQL query optimization.*

Front-End Intern – Teachnook (Remote)

June – July 2025

- **Skill-Sharing Platform | [GitHub](#)** — *Learners had no structured way to discover mentors or schedule peer sessions. **Built end-to-end:** user profiles, skill listings, rule-based mentor matching, and calendar booking system with real-time search, dynamic filtering, and **5+ integrated frontend modules** across auth, discovery, and scheduling flows.*
- **Architected** scalable frontend in HTML, CSS, JavaScript — auth flows, dynamic dashboards, and booking workflows; **enforced WCAG 2.1** (semantic HTML, keyboard navigation, responsive design) for full cross-browser and mobile parity.

PROJECTS

Rakshak – Real-Time Crowd Monitoring & Stampede Prevention

Dec 2025 – Jan 2026 | [GitHub](#)

- Detects **200–500+ individuals/frame** using **YOLOv8 + OpenCV** with heatmap-based density estimation and CLAHE normalization; multi-camera tracking via ByteTrack/BoT-SORT; risk engine scores 7+ metrics (density, compression, velocity variance, direction entropy) to emit **NORMAL/WARNING/CRITICAL** states via real-time WebSocket alerts
- 30-minute risk forecasting via temporal-spatial patterns, historical baselines, and z-score anomaly detection; designed and validated for large-scale public events and venues
- Tech: Python, YOLOv8, BoT-SORT, OpenCV, FastAPI, MongoDB, WebSocket, JavaScript

Demand Intelligence & Inventory Optimization

Sep – Oct 2025 | [GitHub](#)

- End-to-end probabilistic forecasting for multi-store quick-commerce; LightGBM with Optuna, strict time-series CV preventing leakage; 89.4% accuracy (TN=67152, FP=8035, FN=5417, TP=99596); confidence intervals, volatility, and best/worst-case per SKU/store/date
- Real-time pipeline with auto-retraining; reorder logic with safety stock across fast/slow/premium/essential SKU segments; actionable restocking signals per store
- Tech: Python, Pandas, LightGBM, Optuna, Scikit-learn, Power BI, Matplotlib/Seaborn

Real Estate AI Assistant – RAG-Powered Property Search with Scheduling Automation

Feb – Mar 2026 | [GitHub](#)

- Built a RAG-based conversational AI that enables natural-language property search with proximity-aware filtering (metro, schools, hospitals) and dynamic comparison across BHK, budget, location, and amenities; **eliminated manual broker dependency** end-to-end
- Engineered full pipeline: BeautifulSoup scraping → text chunking → Sentence Transformer embeddings → FAISS retrieval → Groq LLM inference; NLP intent detection auto-triggers **Google Calendar API** for visit scheduling and **Gmail API** for dual confirmations — zero manual steps
- Tech: Python, Streamlit, LangChain, Groq API, FAISS, Sentence Transformers, BeautifulSoup, Google Calendar API, Gmail API

SKILLS

Programming	Python, JavaScript, Java, PHP, C++
Data Analytics	Pandas, NumPy, EDA, Statistical Analysis, SQL, Power BI, Matplotlib, Seaborn, Jupyter
Machine Learning	Scikit-learn, XGBoost, LightGBM, Feature Engineering, Time-Series Forecasting, Predictive Modelling
GenAI & LLMs	OpenAI API, Azure OpenAI, LangChain, RAG, FAISS, Groq, Sentence Transformers, Prompt Engineering
Computer Vision	YOLOv8, OpenCV, Object Detection, ByteTrack, BoT-SORT
Backend / Databases	FastAPI, REST APIs, MySQL, PostgreSQL, MongoDB, Snowflake, Data Pipelines
Automation / Tools	Airflow, n8n, GitHub Actions, Google Calendar API, Gmail API, Streamlit, Hugging Face
DevOps	Docker, Git, GitHub, Linux/Shell

EDUCATION

SRM University AP – B.Tech in Computer Science

2023 – 2027 | **CGPA: 8.5**

Class 12 (ISC)

2022 | **93%**

Class 10 (ICSE)

2020 | **90.8%**

CERTIFICATIONS

Oracle Java SE 17 Developer	OCI 2025 Data Science Professional	OCI 2025 Generative AI Professional
Data Engineer – DataCamp	Python for Data Science – DataCamp	Power BI – Forage/Tata
Web Dev – IBM		

HACKATHONS

TechXcelerate | TesserX (NIT Patna) | Hack With Gujarat | CodeStrom AI (Best UI Award) | Byteverse | PixelPalette (**Runner-Up**)