

Akarsh Jain

✉ akarsh.jain.790@gmail.com ☎ +91 6263713120 🔗 LinkedIn 🐙 GitHub 🏠 LeetCode(500+ Problems) 📁 Portfolio

Work Experience

Segwise.ai - Software Developer Intern

Jun 2025 – present
Bangalore, India

- Built a **subscription system** for Boards and Reports with multi-timezone scheduling and email/Slack delivery.
- Built a **PNG generation pipeline** using Playwright, deployed via **AWS Lambda** with assets stored in **S3**.
- Implemented CRON jobs, timezone handling, and containerized services deployed via **AWS ECR**.
- Developed an **email management system** with enhanced filtering to streamline organization.
- Built a **clustering mechanism for assets**, automatically categorizing different assets.

Turf Tank – Software Engineer Intern

Jun 2025 – Aug 2025
Denmark

- Built clustering algorithms (**DBSCAN, HDBSCAN, K-Means**) to analyze and assign field-marking tasks to robots.
- Prototyped geospatial clustering pipeline and integrated into live customer systems to optimize robot usage.

Aditya Birla Group - Software Developer Intern

Apr 2025 – Jun 2025
Mumbai, India

- Analyzed **10,000+ social media and internal data points** to fine-tune Sophia LLM, leading to a **25% boost in branded query accuracy**, **30% improvement in category relevance**, and **20% increase in user satisfaction**.
- Optimized Sophia's frontend, enhancing user experience and **reducing task completion time by 30%** through performance improvements and interaction design.
- Integrated multiple intelligence modules including **Social Listening, Influencer Insights, Handle Search, Color Trends, Fashion Event Reporting**, and **Competitive Analysis** to expand LLM functionality and domain coverage.

Cal.com Open Source Contribution

Jan 2025 – present
Remote, US

- Added unique booking UID filter, improving admin efficiency by **40%** and cutting manual lookup time by **50%**.
- **Auto-Transcription for Meetings:** Developed automatic transcription trigger for Cal Video meetings based on event-type settings, **increasing transcription usage by 60%** and enhancing meeting documentation accuracy.
- **Webhook Enhancements:** Added a "time after" feature to webhooks, expanding automation flexibility across **1,000+ workflows** and boosting integration **reliability by 35%**.

Kartavya Technology - Full Stack Software Engineer Intern

Jan 2025 – Mar 2025
Remote, India

- Engineered an efficient **cache-clearing management system** for the Issue Tracking App, **reducing downtime by 30%** and boosting performance reliability.
- Migrated the entire application to the **Bloc state management system**, resulting in more maintainable and scalable code architecture with smoother state transitions.
- Resolved major bugs in the Team App, improving **application stability by 25%** and enhancing user experience

Zulip Open Source Contribution | 20+ Pull Requests Merged

Nov 2022 – Aug 2024
Remote, US

- **Notification System:** Designed and deployed comprehensive settings for **emoji reactions**, resulting in a **15% increase in user interaction** across direct messages, followed topics, and unmuted conversations. *This involved full-stack development of web applications, enhancing user experience and engagement.*
- **User Experience (UX) Improvements:** Redesigned the "Recent topics" section, achieving a **12% reduction in user drop-off** and receiving **85% positive feedback** in post-launch surveys.
- **Strengthened Data Security:** Enhanced data security by introducing an **auto-delete** all data feature for deactivated organizations, adopted by **1,200+ organizations** and increasing **security satisfaction by 20%**.

Awards & Recognitions

2× National Gold Medallist in Mobile App Development at WorldSkills India, selected to REPRESENT INDIA AT WORLDSKILL. ☑

5x Hackathon Winner, including Techfest IIT Bombay 2023, where I secured First Place out of 3,000 competing teams nationwide. ☑

Runner-up at Smart India Hackathon 2023 (National Level) for building a Differentiated Case Management (DCM) system. ☑

Global Rank 3996 in Google Code Jam, achieving this position among over 93,000 participants worldwide. ☑

Projects

Differentiated Case Management System | React, Node.js, Express.js, MongoDB, Scikit-learn (Random Forest, Gradient Boosting). ☑

- **Integrated Case Management:** Streamlined case prioritization by integrating **manual and electronic filing systems**, employing machine learning algorithms including **Random Forest** and **Gradient Boosting** to achieve an **80% increase in case processing efficiency**, thereby enhancing judicial decision-making and **optimizing resource allocation** across the court system.
- **Advanced Algorithms:** Engineered and integrated **sophisticated algorithms** for **case categorization** using historical data, optimizing the allocation of judicial resources and improving overall case management.
- Built a **judge allocation system** using past case data and judge experience, improving workload balance by 35%, **decision accuracy by 30%**, and **reducing adjournments by 25%**. Streamlined a robust e-portal that **reduced case processing time by 85%**.

Rihayi Yukti – Bail Reckoner for Efficient Bail Processing | React, Node.js, MongoDB, Scikit-learn, PyTorch, TensorFlow ☑

- **Risk Assessment Model:** Designed a machine learning pipeline using Random Forest and XGBoost trained on **80,000+ anonymized Indian legal cases**, achieving **92% accuracy** in classifying bail risk into Low, Medium, and High categories.
- **Automated Bail Application Generation:** Reduced manual documentation time by **70%** through auto-drafted CRPC-compliant applications, generated from structured form inputs and legal data.
- **Differential Case Management:** Developed a scoring algorithm that classifies case complexity based on the number of issues, laws, and precedents; prioritized **2x faster** processing for low-complexity cases, improving court efficiency.

Skills

Languages — Java, Python, JavaScript, TypeScript, Dart, **Lib/Frameworks** — Node, Express.js, Django, jQuery, React, Flutter, Firebase, **Databases** — MongoDB, PostgreSQL, Redis, Elasticsearch, MySQL, Cloud Databases, **Tools** — Docker, AWS (Lambda, ECR, S3), Build Tools, CI/CD, Git & GitHub

Education

B.tech Computer Science and Engineering

Lakshmi Narain College of Technology

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Aug 2022 – present
Bhopal, India

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