

# Akarsh Jain

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## Work Experience

<b>Segwise.ai - Software Developer Intern</b>	Jun 2025 – present Bangalore, India
- Built a <b>subscription system</b> for Boards and Reports with multi-timezone scheduling and email/Slack delivery.	
- Built a <b>PNG generation pipeline</b> using Playwright, deployed via <b>AWS Lambda</b> with assets stored in <b>S3</b> .	
- Implemented CRON jobs, timezone handling, and containerized services deployed via <b>AWS ECR</b> .	
- Developed an <b>email management system</b> with enhanced filtering to streamline organization.	
- Built a <b>clustering mechanism for assets</b> , automatically categorizing different assets.	
<b>Turf Tank – Software Engineer Intern</b>	Jun 2025 – Aug 2025 Denmark
- Built clustering algorithms ( <b>DBSCAN, HDBSCAN, K-Means</b> ) to analyze and assign field-marking tasks to robots.	
- Prototyped geospatial clustering pipeline and integrated into live customer systems to optimize robot usage.	
<b>Aditya Birla Group - Software Developer Intern</b>	Apr 2025 – Jun 2025 Mumbai, India
- Analyzed <b>10,000+ social media and internal data points</b> to fine-tune Sophia LLM, leading to a <b>25% boost in branded query accuracy, 30% improvement in category relevance, and 20% increase in user satisfaction</b> .	
- Optimized Sophia's <b>frontend</b> , enhancing user experience and <b>reducing task completion time by 30%</b> through performance improvements and interaction design.	
- Integrated multiple intelligence modules including <b>Social Listening, Influencer Insights, Handle Search, Color Trends, Fashion Event Reporting, and Competitive Analysis</b> to expand LLM functionality and domain coverage.	
<b>Cal.com Open Source Contribution</b>	Jan 2025 – present Remote, US
- Added unique booking UID filter, improving admin efficiency by <b>40%</b> and cutting manual lookup time by <b>50%</b> .	
- <b>Auto-Transcription for Meetings:</b> Developed automatic transcription trigger for Cal Video meetings based on event-type settings, <b>increasing transcription usage by 60%</b> and enhancing meeting documentation accuracy.	
- <b>Webhook Enhancements:</b> Added a "time after" feature to webhooks, expanding automation flexibility across <b>1,000+ workflows</b> and boosting integration reliability by <b>35%</b> .	
<b>Kartavya Technology - Full Stack Software Engineer Intern</b>	Jan 2025 – Mar 2025 Remote, India
- Engineered an efficient <b>cache-clearing management system</b> for the Issue Tracking App, <b>reducing downtime by 30%</b> and boosting performance reliability.	
- Migrated the entire application to the <b>Bloc state management system</b> , resulting in more maintainable and scalable code architecture with smoother state transitions.	
- Resolved major bugs in the Team App, improving <b>application stability by 25%</b> and enhancing user experience	
<b>Zulip Open Source Contribution   20+ Pull Requests Merged</b>	Nov 2022 – Aug 2024 Remote, US
- <b>Notification System:</b> Designed and deployed comprehensive settings for <b>emoji reactions</b> , resulting in a <b>15% increase in user interaction</b> across direct messages, followed topics, and unmuted conversations. <i>This involved full-stack development of web applications, enhancing user experience and engagement.</i>	
- <b>User Experience (UX) Improvements:</b> Redesigned the "Recent topics" section, achieving a <b>12% reduction in user drop-off</b> and receiving <b>85% positive feedback</b> in post-launch surveys.	
- <b>Strengthened Data Security:</b> Enhanced data security by introducing an <b>auto-delete</b> all data feature for deactivated organizations, adopted by <b>1,200+ organizations</b> and increasing <b>security satisfaction by 20%</b> .	

## Awards & Recognitions

- 2x National Gold Medallist in Mobile App Development at WorldSkills India, selected to **REPRESENT INDIA AT WORLD SKILL**. [🔗](#)
- 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

<b>Differentiated Case Management System</b>   React, Node.js, Express.js, MongoDB, Scikit-learn (Random Forest, Gradient Boosting).	<a href="#">🔗</a>
- <b>Integrated Case Management:</b> Streamlined case prioritization by integrating <b>manual and electronic filing systems</b> , employing machine learning algorithms including <b>Random Forest</b> and <b>Gradient Boosting</b> to achieve an <b>80% increase in case processing efficiency</b> , thereby enhancing judicial decision-making and <b>optimizing resource allocation</b> across the court system.	
- <b>Advanced Algorithms:</b> Engineered and integrated <b>sophisticated algorithms</b> for <b>case categorization</b> using historical data, optimizing the allocation of judicial resources and improving overall case management.	
- Built a <b>judge allocation system</b> using past case data and judge experience, improving workload balance by 35%, <b>decision accuracy by 30%</b> , and <b>reducing adjournments by 25%</b> . Streamlined a robust e-portal that <b>reduced case processing time by 85%</b> .	
<b>Rihayi Yukti – Bail Reckoner for Efficient Bail Processing</b>   React, Node.js, MongoDB, Scikit-learn, PyTorch, TensorFlow	<a href="#">🔗</a>
- <b>Risk Assessment Model:</b> Designed a machine learning pipeline using Random Forest and XGBoost trained on <b>80,000+ anonymized Indian legal cases</b> , achieving <b>92% accuracy</b> in classifying bail risk into Low, Medium, and High categories.	
- <b>Automated Bail Application Generation:</b> Reduced manual documentation time by <b>70%</b> through auto-drafted CRPC-compliant applications, generated from structured form inputs and legal data.	
- <b>Differential Case Management:</b> Developed a scoring algorithm that classifies case complexity based on the number of issues, laws, and precedents; prioritized <b>2x faster</b> 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>B.tech Computer Science and Engineering</b> <i>Lakshmi Narain College of Technology</i>	Aug 2022 – present Bhopal, India
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