

## EXPERIENCE

### IDfy | Module Lead

Jan'20 - Present (5 years)

IDfy is one of Asia's top 5 RegTech product companies; currently valued at \$125M

#### India's largest Video KYC solution - Backend & Machine Learning

- Built a scalable WebRTC platform with media servers, supporting 1000+ concurrent video sessions, delivering high performance in low-bandwidth scenarios
- Used LLMs and speaker diarization to automate auditor tasks with advanced video analysis, reducing review time by 70% and enhancing fraud detection by 18%
- Developed a real-time profile assignment engine using skill-based matching and configurable priority rules, optimizing auditor productivity by 33%
- Implemented a dynamic, rule-driven workflow, enabling profiles to navigate multiple reviewer levels for compliance

#### Identity Verification Platform - Backend & Machine Learning

- Designed a highly scalable API Platform serving 150+ APIs, handling peak throughput exceeding 1000 RPS and 12M+ daily requests with dedicated image/PDF processing
- Introduced RPS-based autoscaling using KEDA, priority queues and intelligent request routing reducing latency by 40% and costs by 25%
- Developed an in-house OCR engine and Masking Service, achieving 98.76% accuracy in masking PII with a 1.04s turnaround time

#### Platform Services - Backend

- Architected a Connection Manager Service, ensuring 100% uptime by converting synchronous requests to asynchronous, eliminating connection disruptions and request failures during app releases
- Redesigned the Rate Limiting Service with adaptive limits to safeguard against request surges, throttling, and performance degradation
- Developed a centralized user access management for cloud and distributed services with AI-powered search, streamlining access requests, approvals, and audits, boosting team productivity

#### Infrastructure

- Contributed to developing the Multiverse architecture framework, enabling single-tenant and multi-tenant deployments across GCP and AWS
- Designed a Cloud Infrastructure Automation Pipeline using Terraform and Terragrunt on GitLab CI, automating infrastructure deployment across 20+ environments
- Implemented observability pipelines across a large-scale, multi-product infrastructure leveraging Linkerd, Prometheus, VictoriaMetrics, and Grafana
- Co-architected a comprehensive logging pipeline enabling efficient log aggregation, storage, and visualization
- Contributed to Platform Engineering initiatives, managing GCP/AWS infrastructure (networks, clusters, and more), guiding teams, enhancing security posture, and improving system reliability

## SKILLS

Elixir, Python, Golang, WebRTC, LLMs, GCP, AWS, Kubernetes, Docker, Packer, Terraform, Terragrunt, Kustomize, ArgoCD, RabbitMQ, PostgreSQL, Neo4j, Tensorflow, OpenCV

## EDUCATION

B. Tech in Electronics and Communication Engineering

LNMIIT, Jaipur | 2020

Research Publication - Social Network-based Sentiment and Network Analysis to Predict Elections - IEEE 2020 ([link](#))

## LINKS

- LinkedIn: [linkedin.com/in/aakashjhavar](https://www.linkedin.com/in/aakashjhavar)
- Website: [aakashjhavar.github.io](https://aakashjhavar.github.io)
- GitHub: [github.com/akashjhavar](https://github.com/akashjhavar)
- Blogs: [aakashjhavar.medium.com](https://aakashjhavar.medium.com)