# KESHAVA RANGA DATTA RAJAVARAM

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## EDUCATION

**Arizona State University** — *Aug 2023 - May 2025*
M.Sc Computer Science — Overall GPA: 4.00/4.00
**Birla Institute of Technology and Science, Pilani, India** — *Aug 2019 - Jun 2023*
B.E Electronics and Instrumentation — Overall GPA: 8.35/10

## PROFESSIONAL EXPERIENCE

**85SIXTY** | AI Engineer Intern | *Denver, USA* — *Jul 2025 - Present*

- Enhanced a **Next.js + Vercel AI SDK** chat application with **multitenant** organization splitting and a secure org selector, ensuring **100%** client data isolation while enabling internal users to manage **10+** client datasets seamlessly.
- **Automated weekly Slackbot reports** via Cloud Run + Cloud Scheduler, integrating OpenAI and Slack SDKs; reduced manual reporting effort for internal teams by **50%** and accelerated reporting by **2x**.
- Improved **prompting and RAG-based** context management pipelines, increasing response precision by **30%** and increasing reliability of client-specific insights.

**FlairX** | Software Engineer Intern | *San Francisco(Remote), USA* — *Mar 2025 - May 2025*

- Implemented multi-host scheduling logic **(Zoom SDK + PostgreSQL)** that lifted daily interview capacity **8 to 40+** slots and eliminated backlogs during traffic spikes.
- Architected a **delayed-job queue** using **PostgreSQL** for Email interview reminders, **cutting reschedules by 30%**.
- Delivered a **Node.js/Chart.js** analytics dashboard, benchmarking interviews for **100+** active job postings.

**True Mates** | Software Engineer Intern | *Los Angeles(Remote), USA* — *Jun 2024 - Feb 2025*

- Implemented in-house subscription webhooks, exposed as Node.js APIs on **Google App Engine**, to manage App Store and Google Play renewals, **eliminating 100% Stripe transaction fees**.
- Automated resource de-provisioning with **Python + GCP Cloud Run** functions, analyzing utilization patterns to schedule shutdowns and **trim cloud spend 42.5%**.
- Led backend development in a cross-functional team, scaling for **500+** users, indexing **PostgreSQL** tables and optimising **Express.js REST APIs** to slash p95 match-fetch **latency 30s - 3s (-90%)**.

**HERE Technologies** | Data Science Intern | *Mumbai, India* — *Jan 2023 - Jun 2023*

- Clustered **7K+** EV GPS traces with **DBSCAN** in **GeoPandas**, exposing high-traffic route hubs and **identifying 6+ prime charging-station sites**.
- Leveraged **Pandas** for QA on **5K+** charging-session logs, **fixing schema gaps and nulls**, and generated a six-month synthetic dataset (30K rows) to boost **accuracy 25%** and **completeness 14%**.

## PROJECTS

**FashionFinder** | *Python, PyTorch, YOLOv8, HF Transformers, FAISS, OpenCV, Windsurf* — Github

- Built a scalable backend to process short videos—detecting garments (YOLOv8), embedding crops (CLIP), matching to a 250-item catalog (FAISS), and assigning style vibes based on captions/tags via zero-shot NLP.
- Applied frame sampling, batched inference, and in-memory index warming to reduce runtime by 70%.

**Popchoice** | *Huggingface Transformers, Supabase, Cloudflare Workers* — Github

- Built a RAG-based movie recommender using embedding similarity to suggest films by user preference.
- Stored OpenAI embeddings in Supabase and used Cloudflare Workers for efficient, rate-limited retrieval.

**Disease Diagnosis Fine-tuning** | *Python, PEFT LoRA, HF Transformers, DistilBERT* — Github

- Fine-tuned DistilBERT with LoRA adapters for conditional symptom-to-disease classification.
- Built end-to-end pipelines using Hugging Face Datasets, Pandas, PEFT, and HF Trainer.

## SKILLS

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|---|---|
| **Languages & Frameworks** | Python, C/C++, TypeScript, Pytorch, Langchain, AI SDK, HF Transformers, Tensorflow |
| **LLM & ML** | Llama, DistilBERT, OpenAI, LoRA, RAG, Prompt Engineering, FAISS, pgvector |
| **Cloud & Tools** | AWS, GCP, Cloudflare, OpenAI API, Linux, Git, Docker, Firebase, Cursor, Twilio |

## CERTIFICATIONS

- **AWS Certified Cloud Practitioner** | 2024