S Sujeeth Shingade

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Professional Experience

Sensesemi Technologies Pvt Ltd   **Sept 2024 – Dec 2024**
ML Engineer | Internship   *Remote*

- Trained a **Keyword Spotting** System optimized for ARM-based SoC hardware.
- Engineered **preprocessing** pipelines, including noise augmentation and pitch shifts.
- Fine-tuned **MobileNetv2**(DS-CNN) achieving **97%** accuracy.
- Leveraged **PyTorch** to optimize CNN model, improving accuracy to **91%**.

SpikedAI   **Apr 2024 – Oct 2024**
Platform Developer | Internship   *Remote*

- Configured and customized the **Hivebrite** SaaS platform for **InventX**, enhancing user-experience.
- Developed responsive & Dynamic web-pages using **Next.js**, optimizing performance & scalability.
- Designed and implemented **Branding** and **User-management** system.

Key Projects

Jadoo.ai: AI-Driven Image Tagging and Description | *Link*   **Dec 2024**

- Integrated **Vertex API** to generate context-rich Image Descriptions.
- Built Frontend with **Next.js**, Animations with **Framer Motion**, and **Supabase**.
- Optimized **Image retrieval** using **pgVector** embeddings for faster search by **76%**.
- Integrated **Vision Transformers** from **Hugging Face** with **Google Cloud Vision**.

BizragBot: RAG Chatbot for Predictive Analysis of Business Data | *Link*   **Oct 2024**

- Built a **RAG pipeline** for LLM-based query answering with **Llama 3.2 1B** Instruct.
- Integrated **LangChain** for efficient document chunking & retrieval workflows.
- Implemented **Semantic Search** with **FAISS** for fast document retrieval.
- Optimized inference speed using **OpenVINO** & **AVX-512** ISA for enhanced performance.

Sena.ai: Sentiment and Emotional Analysis | *Link*   **Jul 2024**

- Fine-tuned **BERT** and **RoBERTa** models for Text classification and Sentiment analysis.
- Implemented **Sentiment & Emotional Analysis** on Text, PDFs, URLs and Images.
- Developed **MPAA Rating System** for media file age-appropriateness.
- Deployed models to **Flask** backend & integrated with **Next.js** frontend using **Flask-CORS**.

Publications

1. Mayank Chaturvedi, Sujay J Ram, **S Sujeeth Shingade**, Samatha R Swamy. **From Monolith to Microservices: A Systematic Literature Survey**, published at *3rd International Conference on Data, Decision and Systems, 2024.*

Technical Skills

- **Languages**: Python, JavaScript/TypeScript
- **Libraries & Frameworks**: Flask, Next.js, React, Node.js, Tailwind CSS
- **Database**: MySQL, MongoDB, Supabase
- **Cloud Technologies**: Google Cloud, Vercel SDK
- **DevOps & Version Control**: Git, Docker, GitHub Actions
- **Other Tools**: Postman, Resend, Figma, SolidWorks, Tableau, LaTeX

Education

RV Institute of Technology and Management   **2022 – 2026**
B.E. Information Science and Engineering – CGPA: 8.47   *Bengaluru, Karnataka*

Achievements

1st Prize Winner | AD3X! Hackathon | Alkimi
1st Prize Winner | Seamless AI Hackathon | Formidium
Honorable Mention | Emerging Tech Hackathon | Metadome.ai
2nd Prize Runner-up | Build Your Web | Robofiesta 2024