

# Abinеш Srinivasan

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## EXPERIENCE

### Data Science Intern

May 2025 – Present

Luhdorff & Scalmanini (LSCE)

Woodland, CA

- Built a full-scale enterprise-level **RAG (Retrieval-Augmented Generation)** desktop application, fully **deployed locally** on a dataset exceeding 500 GB in size
- Engineered a state-of-the-art **local vector database**, achieving over **90%** document retrieval **accuracy** with **query speeds** under **1 second**.
- Collaborated with California **municipal county governments** to analyze **500K+ acres** of ranch land, evaluating water usage across various crop types and environmental factors.

### Research Assistant

Dec 2024 – Apr 2025

California State University

Chico, CA

- Devised **Polymath GNN**, unifying 10+ knowledge graphs, enabling 30% faster discovery and cross-domain innovation
- Engineered a **GNN-RL pipeline**, accelerating hypothesis generation by 50%, improving **link prediction** by 25%, and reducing **data fragmentation** by 40%.
- Designed a **self-learning feedback loop**, increasing validated research connections by 30%, enhancing **interpretability** by 35%, and optimizing **adaptability** across 5+ disciplines.

### Data Science Intern

Mar 2024 – Jul 2024

Intellect Design Arena

Chennai, IND

- Developed a **credit scoring model** using **NVIDIA RAPIDS** to process a 100,000+ record dataset efficiently, achieving 94% accuracy.
- Preprocessed** customer data by handling missing values, encoding categorical variables, and scaling numerical data, enhancing data quality by 25%.
- Conducted **Exploratory Data Analysis (EDA)** with Python to uncover patterns in income, credit history, and repayment behavior, improving feature relevance by 20%.

## TECHNICAL SKILLS

**Programming & Frameworks:** Python, Java, JavaScript, R, SQL/NoSQL, React, Flask, Spring, React Native; Git, Android Studio

**ML/DL & Data Science:** TensorFlow, PyTorch, scikit-learn, Pandas, NumPy, NVIDIA Rapids; Reinforcement Learning

**Generative AI & RAG:** Hugging Face, Transformers, prompt engineering, fine-tuning; FAISS, Pinecone, qdrant

**Computer Vision, NLP & Cloud:** OpenCV, DL-CV models, NLP; AWS, GCP, Firebase, Docker, Kubernetes

## PROJECTS

### Automated Execution & Response Orchestrator - [AERO](#)

TreeHacks, Stanford

- Architected AERO, a high-performance AI assistant **integrating LLMs, vision processing, and automation**, executing 100+ system-level operations with 95% precision in intent recognition.
- Formulated a **parallel processing pipeline**, optimizing real-time execution latency by 60%, **automating workflow orchestration** across 10+ integrated platforms.

### Lex.ai: An AI lawyer application

CalHacks, UC Berkeley

- Fine-tuned** Falcon-7b LLM on 36000 legal cases creating **70 million token size of trainable data** on Google Cloud instance.
- Built a **Retrieval-Augmented Generation (RAG)** system on top of Lex.ai to enable persistent information retention, enhancing the model's ability to access and utilize contextual data effectively.

## EDUCATION

### California State University

Aug 2024 – May 2026(Present)

Master of Science in Data Science and Analytics

Chico, CA

### VIT University

Jul 2019 – May 2024

Master of Technology in Computer Science Engineering (Integrated)

Vellore, IND

**Recent Activities:** Student Ambassador, LA Hacks 2025, TreeHacks 25, Cal Hacks 11.0, Nvidia's Rapid Hackathon

## CERTIFICATIONS

[Supervised Machine Learning: Regression and Classification](#)

Stanford | Online

[Single Page Web Applications with AngularJS](#)

Johns Hopkins University