

# Kavya Sridhar

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## SUMMARY

Master's student in Data Science with a strong foundation in Machine Learning, NLP, Large Language Models, and Algorithm design. Passionate about leveraging data-driven solutions to drive meaningful impact.

## EDUCATION

<b>University of California San Diego</b> Master of Science, Data Science (GPA 3.916/4.0)	La Jolla, CA Sep 2024 – Mar 2026
<b>College of Engineering Guindy, Anna University</b> B.E. Computer Science and Engineering (GPA 3.98/4.0)	Chennai, India Aug 2019 – Apr 2023

## EXPERIENCE

<b>Software Engineer</b> Société Générale Global Solution Centre	Jul 2023 – Aug 2024 Chennai, India
• Optimized SQL-based CI/CD pipelines in Palantir Foundry by integrating ML models and automating query execution logic, reducing AML transaction query processing time by <b>20%</b> and accelerating compliance decision-making by <b>3 business days</b> for stakeholders.	
• Developed dashboards tracking AML alert classifications (reportable status, resolution time, escalations) with real-time filtering and automated alert triggers, eliminating <b>100%</b> of manual analysis time and improving compliance team efficiency by <b>50%</b> .	
• Streamlined data storage and workflows for <b>2</b> AML business units using Scala Spark transformations, Parquet partitioning/compression, S3, and Oozie orchestration, reducing data processing time by <b>40%</b> .	
• Migrated 7 critical AML datasets from Palantir OSv1 to OSv2 by resolving schema incompatibilities and decimal precision constraints, successfully validating and transferring <b>50M+</b> transaction records with zero data loss.	
• Monitored and maintained <b>20+</b> production ETL pipelines processing daily AML transactions, resolving data quality issues and failures, achieving <b>98%</b> on-time delivery for compliance reporting.	

## PROJECTS

<b>HemsHappen App RAG-Based Medical Chatbot</b> Python, RAG, FAISS, LLM Evaluation	Sep 2025 <a href="#">Link</a>
• Developed a RAG-based medical chatbot using FAISS vector search and Claude Sonnet 4 over curated GI clinical guidelines, evaluated across medical accuracy, safety, and patient communication by LLM-as-judge and human experts.	
<b>LegalInsight, Self-RAG Legal Contract Analyzer</b> Python, JavaScript, Flask, Self-RAG	Jan 2025 <a href="#">Link</a>
• Developed a legal contract analysis tool using Self-RAG with EigenScore validation for hallucination detection, implementing Flask backend and FAISS vector store for semantic search across 6,858 LegalBench-RAG queries.	
• Achieved <b>74.65%</b> semantic consistency in AI-generated contract reviews and <b>4.26x</b> faster review time compared to manual analysis across multiple LLM providers.	

## PUBLICATIONS

<b>Understanding DeepFool Adversarial Attack and Defense with Skater Interpretations</b> 2023 International Conference on WiSPNET, IEEE	May 2023 <a href="#">Link</a>
• Improved ResNet50 robustness against adversarial attacks by <b>43%</b> using adversarial training techniques and quantified attack impact through Skater visual interpretation analysis.	

## TECHNICAL SKILLS

**Programming Languages:** Python, JavaScript

**Data Engineering & Databases:** SQL, Apache Spark, FAISS

**Machine Learning & AI:** PyTorch, LLMs, RAG, Adversarial Training, Skater, MLOps

**Cloud & DevOps:** Git, GitHub, AWS(S3), CI/CD, Palantir Foundry

**Web Frameworks:** Flask, JavaScript, React, FastAPI, Docker

**Relevant Coursework:** Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, Data Mining, Statistical Models, Probability and Statistics, Linear Algebra