Jaya Raj Srivathsav Adari

J (201)398-5551 | ■ ajsrivathsav3502@gmail.com | 🛅 Jaya-Raj-Srivathsav-Adari | 🗘 Srivathsav-max | 🔗 Srivathsav.me

Education

New Jersey Institute of Technology

Master in Computer Science Koneru Lakshmaiah University Sep 2023 - Dec 2024

3.71 GPA

Aug 2019 - Mar 2023

9.08 GPA

Technical Skills

Languages: Python, C++, JavaScript, GoLang, TypeScript, SQL

Technologies & Frameworks: :Apache Spark, Apache Kafka, Apache Airflow, Jenkins ,AWS Glue, Apache Hadoop, HDFS, MapReduce, PySpark, Pandas, Numpy, PyTorch, Keras, TensorFlow, Flask, FastAPI, Django, Redis, GraphQL.

Cloud & DevOps: Microsoft Azure, AWS, GCP, Git, JIRA

Honors Bachelor's Degree in Computer Science

Data Visualization Tools: Tableau, Grafana

Databases: MySQL, MongoDB, Postgres, Azure Data Lake, Chroma, Hive

Work Experience

Data Scientist WatchRx

Mar 2025 - Present

Remote

- Built speech-to-text pipeline processing 1000+ hours of healthcare calls monthly using VAD, speaker diarization, and Whisper STT, achieving 95% accuracy for timestamped transcripts
- Shipped NLP summarization systems, reducing manual documentation by 80% and automating review for 500+ daily calls
- Implemented HIPAA-compliant data framework with role-based access controls and audit logging
- Improved transcription quality by 25% through confidence thresholds, language auto-detection, and intelligent re-decode queuing
- Established MLOps with MLflow tracking, drift monitoring, and CI/CD pipelines, reducing deployment time by 60%

Tech: Python, PyTorch, OpenAI Whisper, pyannote.audio, VAD, librosa, spaCy, scikit-learn, Pandas, NumPy, SQL, Airflow, Docker, Git

Data Scientist (AIOps / MLOps)

Sep 2024 - Dec 2024

Verizon Jersey City, NJ • Built anomaly detection on 5TB+ Kubernetes logs daily using Isolation Forest and other custom machine learning approaches, achieved 70%

- accuracy, reduced detection time by 45% Created self-healing recommender using RAG over 1000+ runbooks, reduced manual intervention 80%, cut resolution time from 2 hours to
- 15 minutes
- Orchestrated ETL and ML pipelines in Airflow/Spark, processing 10M+ daily events with streaming and batch scoring
- Deployed Kafka ingestion with schema registry, improved throughput 300% and achieved <100ms end-to-end latency
- Implemented Grafana dashboards tracking detailed model metrics with automated SLO alerting

Tech: Python, PySpark, Airflow, Kafka, scikit-learn, Vector DB, Docker, Kubernetes, Grafana, MLflow

ML Engineer — Computer Vision

Jun 2021 - Jun 2023

Hyderabad, India

- Optimized ResNet models across ONNX/TensorFlow/TFLite, cut inference latency 40% while maintaining 95% accuracy over 4000+ tests
- Implemented operator-level optimizations (fusion, graph optimization), achieving 30% memory reduction and 25% faster execution
- Built benchmarking suite profiling small models, guided quantization/pruning for 2x speedup on edge devices • Automated CI/CD for model conversion with golden output validation, reduced regressions 90%

Tech: TensorFlow, TFLite, ONNX, Python, NumPy, CUDA, Android toolchain, Git

Projects

SNOMED CT & ICD-10-CM Comorbidity Coding LLM

Jun 2025 - Present

[Python, PyTorch, Transformers, scikit-learn, spaCy, SQL, Spark, Airflow, MLflow, Vector DB, LoRA/QLoRA, UMLS]

Sponsored Project

- Trained a multi-label LLM/classifier to predict high-comorbidity ICD-10-CM codes from notes and primary diagnoses.
- Built a terminology pipeline: text normalization, SNOMED CT mapping, and ICD-10-CM crosswalks with synonym handling via UMLS
- Modeled comorbidity signals using co-occurrence stats (PMI/lift) and graph embeddings to generate candidate code sets.
- Fine-tuned with LoRA, enforced valid code decoding; added active learning and evaluated with F1, top-k recall, and exact match.

Clinical Coding & Documentation Automation Suite

Apr 2025 - Jun 2025

[Python, PyTorch, Transformers, scikit-learn, spaCy, SQL, Airflow, MLflow, RAG, Vector DB, FastAPI, GCP]

Sponsored Project

- Built an OASIS virtual nurse (LLM + rules + validators) for structured capture; reduced ops cost 40%; added PII redaction and prompt evals. Shipped predictive ICD-10-CM coding on notes + claims with n-grams, embeddings, and comorbidity lift; improved coder throughput and
- accuracy. Delivered CPT G0181 auto-completion via structured extraction and validations; reduced physician time 65%.
- Logged inputs/labels and added monitoring: data quality, drift checks, precision/recall dashboards; tracked runs in MLflow.

Moxium — AI-Powered Educational Platform

Mar 2025 - Present

StartUp Project

Technical Founder

- Built an adaptive learning engine with student/skill embeddings and DKT/Transformer to serve next-best lesson.
- Designed a recommendation system for certification-competency fit using content tagging, SBERT embeddings, and learning-to-rank.
- Implemented knowledge-gap detection with real-time features; auto-adjusted paths; tracked Top-k Recall, MAP, and time-to-mastery.
- Set up MLOps: MLflow experiments, data quality checks, drift monitoring, and offline/online evaluation.

Tech: Python, Pandas, scikit-learn, PyTorch, Transformers, SQL/PostgreSQL, dbt, Airflow, MLflow.

Certifications

- AWS Certified Developer Associate
 - TensorFlow Developer Certification