Sridhar S

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PROFESSIONAL SUMMARY

Final-year Data Science Engineering student (CGPA: 9.15/10) with hands-on experience in machine learning model development, data engineering, and AI-powered applications. Ranked 501 out of 10,000+ participants in Amazon ML Challenge 2025. Proficient in Python, SQL, and ML frameworks including XGBoost, Google-ADK, and PyTorch. Demonstrated ability to build end-to-end data solutions through multiple hackathons and projects, with expertise in feature engineering, model optimization, and deployment.

EDUCATION

- **RNS Institute of Technology** — Bangalore, India
  Bachelor of Engineering in Computer Science (Data Science) — *Nov 2022 – May 2026 (Expected)*
  - **CGPA**: 9.15 / 10
  - **Relevant Coursework**: Machine Learning, Deep Learning, Data Structures & Algorithms, DBMS, Operating Systems, Data Warehousing

TECHNICAL SKILLS

- **Programming**: Python, SQL, R, C

- **Machine Learning / AI**: Scikit-learn, XGBoost, LightGBM, CatBoost, Computer Vision, Deep Learning

- **Data Analysis & Visualization**: Pandas, NumPy, Matplotlib, Seaborn, Tableau, Power BI

- **Databases**: MySQL, MongoDB

- **Frameworks & Web Technologies**: React.js, Node.js

- **Concepts**: Statistical Analysis, Model Optimization, Hyperparameter Tuning, Ensemble Methods

- **Cloud**: AWS Fundamentals

PROJECTS

- **Personalized Memory Assistant System (PMAS)** — Oct 2025
  Python, ChromaDB, Ollama (Local LLM)
  - **AI Agent Design**: Built a ChatGPT-like personalized AI agent with persistent long-term memory and session awareness inspired by human cognitive architecture
  - **Memory Engineering**: Implemented confidence-based memory storage, decay, promotion, and conflict resolution using ChromaDB
  - **Agent Workflow**: Designed agentic workflow: plan → retrieve → decide → act → reflect

- **PDF Chat RAG System (Local LLM-Based)** — Jan 2026
  Python, Streamlit, FAISS, SentenceTransformers, Ollama
  - **RAG Pipeline**: Designed and implemented a Retrieval-Augmented Generation system for document-grounded question answering
  - **Vector Search**: Built semantic retrieval using FAISS with optimized chunking and embedding strategies
  - **Local LLM Inference**: Integrated open-source LLMs via Ollama to enable privacy-preserving, offline document chat
  - **UX Design**: Developed a ChatGPT-style chat interface with session state management and document reset workflows

- **Amazon ML Challenge 2025** — Oct 2025
  Python, XGBoost, LightGBM, CatBoost
  - **Ranking**: Ranked 501 out of 10,000+ participants
  - **Modeling**: Achieved SMAPE score of 49.58% using ensemble modeling
  - **Data Processing**: Processed 50,000+ e-commerce product records with 20+ attributes

- **AgriConnect – Agriculture Platform Prototype** — Aug 2025
  Full Stack, ML Integration
  - **System Design**: Architected platform connecting 100+ farmers with AI-driven decision support
  - **Leadership**: Led team of 4 developers in 24-hour hackathon at UVCE

CERTIFICATIONS

- **Microsoft Azure Data Fundamentals (DP-900)**: Microsoft, 2024
- **5-Day AI Agents Intensive Course**: Google × Kaggle, 2025
- **LeetCode 50+ Days Badge**: LeetCode, 2025
- **LeetCode Data Navigator Badge**: LeetCode, 2025
- **Geodata Processing using AI & ML**: ISRO-IIRS, 2025
- **AI Infrastructure and Operations Fundamentals**: NVIDIA, 2025
- **Hackathon Participation Certificate**: SJBIT, 2025
- **Hackathon Participation Certificate-Code for Carnage**: UVCE, 2025

ADDITIONAL INFORMATION

- **Leadership & Collaboration**: Led development teams in hackathons and delivered production-ready prototypes under tight deadlines
- **Technical Communication**: Presented complex data science concepts to technical and non-technical stakeholders
- **Continuous Learning**: Actively pursuing MLOps, deployment, and cloud data engineering

FIND ME ONLINE

- LinkedIn

- GitHub