P.V. Sravanth Reddy

Lead Full Stack Data Scientist

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Skills & Abilities

- **Softwares**: Python, R, Unix Shell, Keras, SQL, NoSQL, FASTAPI, Prompt Engineering
- **Tools**: Spark, Kafka, Tableau, CI/CD - GIT, Jenkins, Kubernetes, Docker.
- **Functional**: Machine Learning, Statistics, Predictive Modeling, Generative AI, LLMs, Recommendation Engine, NLP, Neural Networks, Data Visualization, Micro-Services.

Professional Experience

Senior Data Scientist - Commonwealth Bank of Australia

- Develop AI solutions for the bank customers specialized in Gen AI

IntelliSOP - Intelligent SOP & Policy Alignment System **2025**

- Designed and led development of a **multi-agentic LLM framework** to automatically read, analyze, and score organizational **SOPs and policy documents** for compliance, consistency, and completeness.
- Built intelligent agents to perform **document classification, gap detection, semantic similarity, conflict identification**, and policy–procedure alignment using RAG pipelines, vector databases, and LLM orchestration frameworks.
- Integrated an automated reporting layer that generates structured compliance summaries, deviation reports, and risk flags.
- Scaled to **14K+ SOP and policy documents**, improving audit readiness and governance while **saving an estimated 800K+ hours annually** in manual review efforts.

Intelligent Doc Parser **2025**

- Developed a **modular, multimodal LLM-based document parsing engine** capable of ingesting and understanding documents in **PDF, DOCX, PPT, HTML, and image formats**.
- Integrated **Doc-YOLO v10** for bounding-box detection and layout extraction, followed by multimodal embedding models for semantic parsing and context retention.
- Achieved **95%+ accuracy** in key-value extraction and text structure retention, outperforming previous document parsers by over 15%.
- Deployed as a **microservice API** with versioned model endpoints for company wide usage processing 250K docs per month.

ASR using Whisper **2025**

- **ASR using Whisper:** Implemented an automatic speech recognition pipeline using **OpenAI Whisper**, achieving **96% Word Error Rate (WER)** for customer call transcription.
- Integrated text normalization, diarization, and sentiment tagging to enable downstream analytics.
- Fine Tuned the model to increase domain specific words' accuracy

Fine-Tuning & Model Optimization **2025**

- Fine-tuned **LLaMA 3.3** on a proprietary dataset of customer complaint letters to improve **tone, empathy, and contextual accuracy** of automated responses.
- Conducted **RLHF-style preference training** using internal quality metrics and human feedback loops to improve content fluency and compliance tone.
- Benchmarked against **GPT-4o**, achieving **+15 basis points higher performance** on internal evaluation metrics (contextual coherence, factual grounding, empathy).

Data Scientist - Commonwealth Bank of Australia

- Develop AI solutions for the bank customers specialized in Gen AI

Gen AI - Insights Generation and Information Extraction **2024**

- Used GPT-4 to comprehend interview transcripts to analyze, extract and generate insights about the interview.
- Extract general themes, anomalies, answer targeted questions and create easy to use summaries.
- Eliminate the manual effort of analyzing transcripts of multiple days.
- Scaled to 70 interviews of 2 hours each on an avg. saving about 7 FTE per month

Gen AI - Automatic Letter Generation **2024**

- Gen AI model to generate automatic letters to customers responding to their complaints and disputes.
- Creates personalized, empathetic letters utilizing notes of the agent.
- Manual letter writing takes 20 mins. per letter and this tool can do it in 20 seconds.
- Annual time saving of 8000 Hrs. by generating 30,000 letters annually.

Gen AI - ILLM Chat Bots **2023**

- Created three chatbots using LLMs and Vector DB by utilizing the RAG method.
- Used prompt engineering to format, summarize and create responses.
- Used by the HR team to reduce the number of tickets raised to the team saving 40% workload.
- Enabled Bank Branch team to answer customers' queries faster by eliminating need to search 2800 documents

- Enabled Fraud and Scam response team to provide the customer next steps faster for varied fraud case types.

Migrant Churn and Uplift Analysis **2022**

- ML model to identify probable churn among migrant customers
- Identify the causes for churn and develop uplift analysis for targeted campaigns.
- Retained 28K customers with AUS $ 5.8 Million in savings in revenue.

Senior Lead Data Scientist - Societe Generale

- Lead and manage a team for developing data science and data engineer projects.
- Develop Data Science Solutions focusing on AI OPs
- Design data and model architectures with ETL and data warehousing.
- Provide Data Analysis and inferences from data mining with visualizations.

Phone Handling **2022**

- AI Model to identify phone handling**.**
- Identifies 5 types of phone handling and raises alerts.
- Used spark and Kafka to process the streaming data.
- Developed an API using FASTAPI and deployed on Kubernetes to efficiently scale**.**

Lead Data Scientist - Societe Generale

- Lead and manage a team of 3 data scientists and 5 full stack engineers.
- Develop AI solutions for Societe Generale Global Technological Solutions.
- Responsible for digitizing and automating L1 teams.

AI-Ops - Cockpit Tool **2021**

- Model to automatically correlate incoming alerts to meaningful groups to reduce alert fatigue.
- Anomaly detection of multivariate data to mitigate outages faster.
- Determine probabilistic root cause and recommend historic solutions.
- Reduce MTTR of outages. Prevented **4 outages / month.**

Smart Incident Processor **2020**

- Generalized ML tool to classify tickets using NLP and neural networks and auto fix them using automation.
- Automating L1, L2 and call center` activities.
- Adopted to 35 teams. **1400 hrs/ week savings per week** achieved.

Recommender Systems - Learning and Development **2020**

- Recommender engine is built for every user to get personalized course recommendations.
- Using both content and collaborative filtering methods increased avg time spent on learning per user by 15 %.

Lead Engineer - Fidelity Investments

- Responsible for ideating and implementing AI solutions for the cybersec team of Fidelity.

User Behavior Analysis **2019**

- Model to monitor and detect anomalies in user behavior to proactively mitigate attacks and compromises.
- **30% reduction** in user related incidents.

Cyber-Security Threat Hunting & Anomaly Detection **2019**

- Threat Detection System to achieve real time threat identification, classification and resolution recommendation.
- Predictive Model to forecast volume/threat level of alerts. Anomaly Detection and Threat Level Rating.
- **50% reduction** in phishing and malware clickers. Reduced time to mitigate issues.
- Detected active campaign vulnerabilities in the system.

Software Engineer - Fidelity Investments

Log Pattern Anomaly Detection **2018**

- Log pattern analysis and anomaly detection. System failure prediction. Dynamic system metrics alerting system.
- **80% reduction** in resource unavailable incidents. **30 hrs/week** time savings.

Email Mining and Analysis **2017**

- Mail scrapping and NLP to categorize, analyze and prioritize work items out of thousands of mails a day.
- **10hrs/day** savings by triggering automation after deriving information from mail.

Associate Engineer - Fidelity Investments

Incident Resolution Recommendations Dashboard **2016**

- A shiny dashboard to recommend possible solutions to an incident using historical data was created.
- Reduced time of resolution of incidents across teams.

Mainframe Batch Job Run- time Prediction **2015**

- Run time of a batch cycle is forecasted using Random Forest ensemble model helping mainframe team
- **Saved 10K dollars** on optimizing the mainframe availability for a batch cycle.

Education

· B.E in Electronics & Communication	Bangalore Institute of Technology	77.74%
· 12th Board in PCM	Narayana Junior College	95.1%
· 10th Board	Bhashyam public school	90%