Swetha Ganapathi Raman

Experienced Data Scientist with 5+years of combined experience in Analytics, Data Engineering and Machine Learning

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Work Experience

Independent Data Scientist / Machine Learning Engineer, Fremont, California (Feb 2022 - Present)

- Professional Certificate in ML/AI - UC Berkeley (May - Dec 2023)
  - Built a Research paper Q&A App using RAG (Llama Index, Streamlit)
  - Built a text classification model to detect people who are at risk for suicide based on their posts on reddit
- Google Cloud certified Professional Machine Learning Engineer & Data Engineer - Big Query, Vertex AI

Data Scientist/Data Engineer, Instacart, Toronto, Canada (Dec 2018 - Jan 2022)

- Partnered with engineering and product to instrument new and existing features
- Designed, built and maintained **ETL data pipelines**, **data models**, **ML models**
- Set up, launched and analyzed 20+ AB experiments to draw detailed and actionable conclusions
- Deployed ETL pipelines using best practices including UAT testing, GIT versioning and CI/CD
- Identified/Defined metrics for different features and built reports/dashboards to track the KPIs on **Periscope**
- Analyzed product data and identified insights using **Python/SQL** to guide enterprise product roadmap

Data Analyst (Contractor), Tesla, Palo Alto, California (Apr 2018 - Oct 2018)

- Performed big data analysis using **Python/Spark** on vehicle fleet data for diagnostics and prognostics
- Performed statistical analysis (Weibull analysis) in **Python** to quantify reliability risks in the field
- Analyzed field failure data and predict warranty failure rates and costs
- Created data visualizations using **Tableau** for Reliability engineering team to communicate results and drive decision making
- Supported ad hoc data pull requests from different teams including firmware, vehicle test, design using **SQL**

Business Analyst (Contractor), VMware, Palo Alto, California (Nov 2017 - Apr 2018)

- Gathered and analyzed bookings data from **SAP HANA** and pipelines data from **Salesforce** for different products in Cloud management business unit and develop final recommendations
- Prepared sales charts and reports on **Excel** from bookings data for quarterly executive review
- Automated recurring analytics reports and data pulls and create dashboards using **Tableau, PowerBI**
- Supported ad hoc data analysis requests on bookings, opportunities and other related KPIs
- Partnered with finance, PM and PMM teams in quantitative analysis to guide business decisions

Account Manager / Sales Data Analyst , San Jose, California (Sep 2006 - Oct 2017)

- Numerous positions in technical sales, account management and hardware engineering in companies like Atmel, SanDisk, International Microsystems and Ma Labs in Bay area, California

Technical Skills

- Machine Learning : Python, NLP, LLM, Sklearn, Pytorch, TensorFlow
- Data: SQL, Snowflake, Streamlit, Git, Airflow, GCP, AB testing, Tableau, Periscope

Education & Certifications

- Master of Science, Electrical Engineering, Clemson University, South Carolina, 2006
- Bachelor of Engineering, Electronics Engineering, University of Madras, India, 2004