Venkata Sai Teja Mothukuri

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Summary

Data Analyst with hands-on experience in SQL, Python, Power BI, Tableau, and Databricks, skilled at transforming raw data into actionable business insights. Pursuing M.S. in Computer Science with a specialization in Data Analytics. Passionate about automating workflows using AI tools and scalable pipelines to drive data-driven decisions and operational efficiency.

Skills

Data Analysis & Visualization: SQL, Python (Pandas, NumPy, Matplotlib, Seaborn), Tableau, Power BI
Database Management: MySQL, DynamoDB, Google BigQuery, MS Excel
AI & Cloud: AWS (Lambda, S3, API Gateway, Bedrock)
Workflow Automation: n8n, Make.com
Programming & Tools: Python, Jupyter Notebook, Git, GitHub, VS Code
Data Processing & Cleaning: Data Cleaning, Data Manipulation, Feature Engineering

Education

University of Central Missouri **Jan 2024 – Dec 2025**
Master of Science in Computer Science, Specialization: Data Science & AI *Warrensburg, MO*

Sagi Ramakrishnam Raju Engineering College **Aug 2019 – Apr 2023**
Bachelor of Technology, Information Technology *India*

Experience

Accenture North America **Apr 2025 - May 2025**
Data Analyst Virtual Experience (Forage)

- Conducted a detailed simulation to advise a hypothetical social media client, as a Data Analyst at Accenture, effectively applying analytical skills to drive strategic recommendations and improve client engagement outcomes.
- Cleaned, modelled and analyzed 7 datasets to uncover insights into content trends to inform strategic decisions
- Prepared a PowerPoint deck and video presentation to communicate key insights for the client and internal stakeholders

Projects

Glassdoor Review Analysis | *Project Link* **July 2025 - Oct 2025**

- Cleaned and standardized 10K+ employee reviews (handled missing values & duplicates), creating a high-quality dataset for reliable trend analysis using Python (pandas, NumPy).
- Performed EDA & feature engineering (tenure groups, job roles, locations) to identify key satisfaction drivers, uncovering patterns that improved segmentation insights by 30%.
- Built Power BI dashboards & Python visualizations (matplotlib, seaborn) to track KPIs across roles and locations, enabling benchmarking of workplace quality across industries.

Target Brazil E-commerce Analysis | *Project Link* **Sep 2023 - Nov 2023**

- Analyzed 100K+ e-commerce orders in Google BigQuery & Tableau, identifying 20% YoY sales growth and revealing retention patterns that boosted decision-making efficiency.
- Evaluated regional shipping delays (23+ days vs 15 days) to recommend logistics improvements, driving 15% faster delivery performance in underperforming states.
- Developed interactive Tableau dashboards providing real-time insights into payment behaviors (70% credit card usage vs declining vouchers), improving financial strategy alignment.

AI-Powered RAG Chatbot using AWS Services | *GitHub* | *Live Demo*   **Oct 2025 - Dec 2025**

- Built a serverless Retrieval-Augmented Generation chatbot on AWS using Lambda, API Gateway, S3, DynamoDB, and Amazon Bedrock, enabling users to query uploaded PDFs/DOCX files with context-aware AI responses.
- Implemented vector embedding and semantic search with Titan Embeddings and in-memory cosine similarity, retrieving top-5 relevant document chunks to significantly improve answer accuracy and relevance.
- Designed secure JWT-based authentication and document lifecycle management (upload, index, delete) with IAM-controlled access, supporting scalable multi-user usage while maintaining data isolation and security.

AI & Workflow Automations

YouTube SEO Generation Automation | *Workflow Link*

- Built an end-to-end YouTube SEO automation workflow (48 nodes) that converts raw scripts into publish-ready SEO assets, generating optimized titles, descriptions, tags, and pinned comments using YouTube API, autocomplete scraping, and local Ollama LLMs.
- Built an AI-driven discoverability and thumbnail pipeline, analyzing top-performing videos by engagement metrics and auto-producing CTR-optimized 1280×720 thumbnails, with full orchestration via Telegram triggers and Google Docs/Sheets logging.

LinkedIn Job Application Automation | *Automation Link*

- Developed an AI-powered job application workflow using Make.com and Apify to scrape LinkedIn listings and auto-generate custom ATS-optimized resumes, cover letters, and outreach emails tailored to each role.
- Implemented an end-to-end job tracking system storing applications, documents, and statuses in Google Sheets and Drive, reducing manual application effort by 80% through a one-click automated pipeline.

Data Visualization & Dashboards

IPL Cricket Analytics Dashboard | *Tableau*

- Visualized 13+ years of IPL performance data including team yearly wins (2008-2020), toss win percentages, wicket statistics, and player achievements with interactive filters for season and team comparisons.

Sales Performance Analysis Dashboard | *Tableau*

- Analyzed $101M+ revenue across 5 product categories and 50+ US states featuring geographic heat maps, payment method distribution, and product velocity tracking with dynamic category selection.

Insurance Claims Analytics Dashboard | *Power BI*

- Tracked $600M+ coverage across 10K+ policies with real-time claim status monitoring (Pending/Settled/Rejected), demographic segmentation by gender and age groups, and policy type performance analysis.

Glassdoor Reviews Sentiment Analysis Dashboard | *Power BI*

- Analyzed 112 company reviews with 4.0 average rating, featuring temporal sentiment trends (2022-2025), company benchmarking across 5 employers, and state-wise review distribution with interactive filtering.

Certifications & Publications

- Microsoft Power BI Data Analyst Associate - Jun 2025
- Udemy: Complete Data Analyst Bootcamp From Basics to Advanced – April 2025
- NPTEL Data Analytics with Python - Apr 2022