Shivakumar Pasem

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Profile

Results-driven Data Scientist with over 4 years of experience leveraging Python, SQL, R, and cloud platforms to build scalable ETL pipelines, develop predictive and NLP models, and create Bl dashboards that drive business impact. Proven success in applying GenAI/LLMs for real-world use cases in healthcare and consulting. Passionate about transforming unstructured data into actionable insights that optimize operations, improve user experience, and increase ROI.

Skills

Languages — Python, R, SQL

Data Visualization — Power BI (DAX), Tableau, Looker, Plotly, Seaborn, Matplotlib, Excel (Pivot Tables, VLOOKUP)

Cloud Platforms — AWS (S3, Glue, Redshift, Lambda), Azure (Data Lake, Synapse), GCP (BigQuery)

DevOps & Tools — Git, GitHub, JIRA, Confluence, Postman, REST APIs, GA, Google Tag Manager

Data Science/ML — Regression, Classification, Clustering, A/B Testing, Feature Engineering, NLP (Hugging Face, LangChain), Scikit-learn, Pandas, NumPy, Statsmodels, Model Evaluation,Power Automate

Big Data & ETL — PySpark, Apache Spark, Databricks, AWS Glue, Airflow, Informatica, Kafka, Hadoop

Databases/Warehousing — Snowflake, Redshift, PostgreSQL, MySQL, SQL Server, MongoDB

Project Methodologies — Agile (Scrum, Kanban), Waterfall

Professional Experience

Data Scientist, *Cardinal Health* 08/2024 – Present

- Designed and deployed LLM-powered NLP models using Hugging Face and LangChain, accelerating clinical documentation workflows and reducing average processing time from 8 to 28 hours across 5 departments.
- Developed a Power Apps-based automation tool to monitor incoming emails, identify relevant messages using keyword matching, generate concise summaries, and forward them to a shared mailbox, streamlining communication workflows
- Engineered PySpark-based ETL pipelines on AWS Glue and S3, reducing data refresh latency from 12 hours to under 8 hours, impacting 30+ internal stakeholders.
- Integrated GenAl-based summarization and sentiment analysis tools into internal healthcare dashboards, aiding clinical decisions for over 300 patient cases per week across 5 care teams.
- Developed interactive Tableau and Power BI dashboards to visualize sentiment insights and KPIs across 12+ ongoing clinical programs, driving faster reporting and leadership alignment.
- Standardized NLP preprocessing workflows, increasing annotation accuracy by over 1,000 additional validated clinical notes per week, significantly boosting model training efficiency.

Data Analyst, *Deloitte* 01/2020 – 12/2022

- Analyzed customer behavior patterns using SQL, Python, and R from over 2.5 million transaction records, identifying churn risks and contributing to retention of $3.2M in annual revenue.
- Automated 30+ recurring weekly reports using Python and Excel Macros, saving approximately 120 hours/month of analyst time and reducing reporting turnaround time from 6 hours to 5 minutes.
- Leveraged AWS Forecast to increase demand forecasting accuracy for 5 top- selling product categories, reducing overstock by 25,000 units and saving $280K in inventory costs.
- Built Power BI/Tableau dashboards covering 100+ KPIs for executive reporting across CLTV, campaign ROI, and SKU profitability - supporting $12M+ in strategic planning decisions.
- Developed and deployed a chatbot using AWS Lex, Lambda, and DynamoDB that handled 15,000+ queries/month, cutting live support calls by 6,000 per month.
- Identified $100K in revenue leakage via SQL-based anomaly detection and restructured pipelines to reduce dashboard load times from 5 minutes to less than 2 minutes.
- Presented actionable insights to stakeholders that led to a $1.1M cost optimization plan and a $1.3M increase in revenue across a portfolio of retail and healthcare clients.

Education

Master of science in Data science, *University of Massachusetts* 01/2023 – 12/2024 | Dartmouth, USA

Certificates

Microsoft Azure Fundamentals (AZ-900)
Microsoft

The Data Science Course 2023: Complete Bootcamp
Udemy

Sparkling Star & Learning Paladin
Cognizant