Giri Sai Kumar Pragada | Data Scientist

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SUMMARY

- 3.5+ years of experience in developing scalable data science solutions using Python, with a strong ability to automate complex data processing workflows and streamline business operations.
- Skilled in designing robust ETL pipelines using PySpark and SQL, capable of efficiently processing large-scale datasets and improving data availability for enterprise reporting systems.
- Adept at building interactive web-based interfaces using HTML, CSS, and JavaScript, enhancing the usability and functionality of data visualization tools for internal stakeholders.
- Strong foundation in machine learning model development using TensorFlow, with experience in predictive analytics that supports business forecasting and strategic planning.
- Strong foundation in machine learning, deep learning, and predictive modeling using TensorFlow, with experience in building analytics solutions that support business forecasting and strategic planning.
- Experienced in advanced data manipulation and statistical programming using NumPy and Pandas, enabling efficient data preparation and transformation for analytical tasks.
- Knowledgeable in applying Scikit-learn and SciPy for feature engineering and model evaluation, with a focus on improving model performance and accuracy.
- Competent in creating clear and insightful data visualizations using matplotlib and Seaborn, translating technical findings into actionable insights for non-technical teams.
- Hands-on expertise in relational database management using MySQL, MS SQL Server, and PostgreSQL, with a focus on performance tuning and large-volume data processing.
- Experienced in developing BI dashboards using Power BI, integrating business KPIs to support decision-making with real-time, interactive visual insights.
- Skilled in using Tableau for designing user-centric dashboards and monitoring performance metrics, improving engagement and campaign tracking effectiveness.
- Proficient in Microsoft Excel for financial modeling and reporting, including advanced functions like Pivot Tables, VLOOKUP, and automation techniques to streamline repetitive tasks.

TECHNICAL SKILLS	
Languages:	Python, PySpark SQL, HTML, CSS, JavaScript
Frameworks:	TensorFlow, NumPy, Pandas, Scikit-learn, SciPy, matplotlib, Seaborn, PyTorch,
Databases:	MySQL, MS SQL Server, PostgreSQL
Data Visualization:	Power BI, Tableau, MS Excel
AI/ML Capabilities:	Machine Learning, Deep Learning, Natural Language Processing (NLP), Predictive Modeling, AI-Powered Solutions
Tools:	Git, MS Office Suite (Word, Project, Excel, Visio, Excel Pivot table, V-looks, PowerPoint), JIRA, SAP, Airflow
Analytic Skills:	Requirements gathering, Statistical Analysis, Process modeling, Stakeholder management, Gap analysis
Cloud Platforms:	AWS
Methodologies:	Agile (Scrum, Kanban, User stories, sprint planning, Retrospective meetings)

EXPERIENCE

Data Scientist (Intern)

Northern Trust | Binghamton | Jan 2025 - Current

- Deployed ML and NLP models using AWS SageMaker and Lambda, creating scalable AI-powered solutions and reducing infrastructure costs by 22% through serverless deployment.
- Python developed a customer segmentation model using K-Means and XGBoost that improved campaign engagement by 27% and reduced churn by 18%.
- PySpark SQL processed over 2 TB of structured and unstructured data from multiple sources, improving data availability by 35% through optimized ETL pipelines.
- TensorFlow implemented deep learning models to predict customer lifetime value with 93% accuracy, driving personalized marketing strategies.
- MySQL wrote complex queries and optimized database performance to reduce report generation time by 40% for monthly business reviews.
- Tableau built executive dashboards with real-time KPIs for sales and customer acquisition, increasing stakeholder visibility and insights.
- Git managed version control across 30+ data science notebooks and production scripts, enabling collaborative development and code reliability.

Data Analyst

Tata Consultancy Services | India | Apr 2021 - Jul 2023

- Leveraged Machine Learning and Deep Learning frameworks such as TensorFlow and Scikit-learn for predictive modeling, including regression, classification, clustering, and Natural Language Processing (NLP) tasks.
- Developed and maintained data pipelines using PySpark and SQL across AWS environments, ensuring scalable and secure data transformations.
- Conducted comprehensive data analysis using Python (Pandas, NumPy, SciPy, Scikit-learn) and statistical modeling to support business decision-making and identify trends.
- Designed and deployed interactive dashboards in Power BI and Tableau, transforming complex datasets into actionable insights for stakeholders.
- Collaborated cross-functionally in Agile/Scrum teams, participating in sprint planning, backlog grooming, and retrospectives to deliver data-driven features.
- Performed ETL operations using Airflow, automating workflows and ensuring reliable data ingestion from sources like MySQL, PostgreSQL, and MS SQL Server.
- Created and optimized SQL queries for ad-hoc reporting, business intelligence, and advanced analytics in relational databases.
- Leveraged TensorFlow and Scikit-learn for predictive modeling and machine learning, including regression, classification, and clustering algorithms.
- Delivered executive-level reporting and visualizations using Excel PivotTables, VLOOKUPs, and PowerPoint, supporting strategic business reviews.

Data Analyst

Cybage Software | India | Jan 2020 - Mar 2021

- Optimized complex PostgreSQL queries, reducing database query execution time by 40%, ensuring faster data retrieval for analytics teams.
- NumPy utilized matrix operations and statistical methods to analyze pricing trends for over 500 products across multiple retail channels.
- Seaborn created correlation and distribution visualizations for marketing datasets, helping to optimize budget allocation by 12%.
- PostgreSQL extracted and joined data using advanced SQL queries including CTEs and window functions for campaign analytics.
- JavaScript contributed to building interactive dashboards using JavaScript chart libraries, improving user engagement with internal tools.
- Excel VLOOKUP automated reconciliation processes using Excel formulas and macros, saving over 30 hours per month in reporting.
- MS Office Suite prepared executive presentations and documentation using PowerPoint, Word, and Visio for project tracking and communication.
- Requirements Gathering conducted stakeholder interviews and translated business KPIs into technical specifications for dashboard development.

EDUCATION

Master of Science in Information Systems
Binghamton University, State University of New York Binghamton

Aug 2023 - May 2025

■ Bachelor of Technology in Electronics and Communication Andhra University, India Visakhapatnam

June 2016 - Apr 2020

PROJECT

AI-Powered Business Insights Chatbot

Designed and developed an interactive GenAI-based chatbot that enables users to ask business questions in natural language and receive dynamic responses by executing real-time SQL queries on sales and operations data, with results visualized using charts and dashboards. The solution enhances stakeholder decision-making by bridging the gap between raw data and strategic insight through conversational analytics.

- Integrated OpenAI's GPT model to translate user queries into optimized SQL code for PostgreSQL and MySQL databases.
- Built a clean frontend interface (HTML/CSS/JS) for interactive user input and visual feedback.
- Used Pandas & PySpark SQL for data processing and Seaborn/matplotlib for in-app visualizations.
- Embedded Power BI/Tableau dashboards for deeper executive-level analytics and reporting.
- Automated data refresh and ETL workflows using Apache Airflow and scheduled jobs.
- Followed Agile methodology (sprint planning, retros, user stories) and tracked tasks via JIRA & Git.