

Sreerag Mahadevan Cheeroth

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SUMMARY

Experienced Data Analyst with 3 years of expertise in product decisions, predictive modeling, and process improvement. Achieved a 99.8% reduction in data process time, resulting in significant cost savings. Proficient in Python for building prediction models (XGBoost, LSTM, ARIMA) with an 80% prediction accuracy. Skilled in advanced Excel tools (Pivot Tables, VLOOKUP) for analyzing key performance indicators, improving data accuracy by 80%. Translates business requirements into technical solutions using requirements analysis, BRDs, FRDs, and actionable Tableau dashboards. Excels in stakeholder management through a collaborative approach, data-driven decisions, and workflow optimizations.

EDUCATION

University of Maryland, Robert H. Smith School of Business

College Park, MD, USA

Master of Science in Business Analytics, GPA 3.47

December 2023

Data Analysis in Processing Python, Database Management Systems, Business Process Analysis, Price Optimization, Data Mining, Enterprise Big Data and AI, Predictive Analytics, Data Models and Decisions, Web Analytics & Data Visualization, Operation Analytics

Manipal Academy of Higher Education, Manipal Institute of Technology

Manipal, Karnataka, India

Bachelor of Technology in Mechanical Engineering

May 2021

SKILLS & INTEREST

**Skills:** Python (Pandas, NumPy, TensorFlow, PyTorch, Keras, NLTK), R (dplyr, tidyr, caret, forecast, tidymodels), SQL, Tableau, Excel, PowerBI, Lucidchart, AWS, Snowflake, JIRA, MS Word, PowerPoint, Salesforce, Quantitative Analysis, Machine Learning, NLP, Business data analysis, Leadership, Project Management, Stakeholder relations, ETL, Report Writing, Financial planning and forecasting, Agile SCRUM methodology, Data Science, Business Analytics, AI Development, Cloud Computing, Data Visualization

PROJECT EXPERIENCE

Loan Default Prediction

December 2023 – February 2024

- Enhanced loan default prediction accuracy by 15% using model optimization techniques, significantly reducing credit risk.
- Applied **DeepChecks & SHAP** techniques to increase **model accuracy** by 25%, making complex data decisions actionable.
- Optimized **error cost analysis**, saving \$2M annually by minimizing high-impact prediction errors in **loan defaults**.

Large Language Model (LLM) for E-Commerce Chatbot

December 2023 – January 2024

- Influenced fine-tuning of an LLM using PEFT and RAG, enhancing customer interaction and reducing query resolution time.
- Utilized PEFT techniques to reduce computational needs by 90% maintaining model performance, leading to **cost-effective deployments**.

WORK EXPERIENCE

JerseySTEM

Florham Park, NJ, USA

Grant Data Analyst

January 2024 – Present

- Implemented data collection and data cleaning using **Python** and **SQL** from multiple **data sources** and **Salesforce**, deriving actionable insights into marketing and sales strategies for grant funding, resulting in an **8% increase** in quarterly revenue.
- Utilized **Power BI** to track **KPIs** and generate comprehensive reports for stakeholder communication, enhancing leadership decision-making.
- Conducted over **100 detailed data analyses** to support business decisions, using **SQL** for querying and **data extraction** from relational databases.
- Designed and implemented **robust ETL (Extract, Transform, Load) pipelines** to process and integrate data from various sources into a centralized data warehouse, ensuring high data quality and integrity.
- Leveraged **Databricks** and **Apache Spark** to optimize big data processing workflows, significantly improving data processing speeds and analytical capabilities.
- Developed and maintained scalable **ETL processes** for loading data into **Snowflake**, ensuring data integrity and **reducing data loading time by 50%**.
- Collaborated with cross-functional teams using **JIRA** and **Agile SCRUM** methodologies, improving project **completion rate by 10%**.
- Strategized and translated stakeholder requirements into **high-impact deliverables, completing projects ahead of schedule**.
- Presented actionable insights through interactive **Tableau** dashboards to both technical and non-technical stakeholders, driving improved decision-making processes.

Master’s Programs Office- University of Maryland

College Park, MD, USA

Data Analyst

June 2023 – December 2023

- Presented Tableau dashboards to communicate actionable insights to both technical and non-technical stakeholders, driving student satisfaction up by 18%.
- Achieved 99.8% operational efficiency through process automation of manual data entry – student and employee data management.
- Strategized stakeholder requirements into high-impact deliverables completing the project 2 weeks ahead of schedule.

KPMG

Bangalore, Karnataka, India

IT Data Analyst Lead

July 2020 – July 2022

- Implemented robust data governance checks based on **ISO 27001** and **NIST CSF** standards to ensure data integrity and security across diverse data sources, Leveraging **SQL**, and Managed documentation for audit procedures, resulting in a **25% reduction** in completion time and improved stakeholder management.
- Utilized advanced Excel tools such as **Forecasting, Pivot Tables, and VLOOKUP** to analyze and maintain **12 KPIs** across multiple regions, **improving data accuracy by 27%**.
- Developed and implemented interactive **Tableau dashboards** for stakeholder engagement, enhancing data visualization and **leading to a 20% increase** in operational efficiency.
- Collaborated with cross-functional teams using **Agile methodologies** and the Office suite, reducing project **completion time by 34%** and ensuring alignment with business objectives. For in-depth analysis of complex datasets, identifying and mitigating data compliance risks while supporting internal audit processes.
- Successfully deployed efficient Spark-based data pipelines, achieving a remarkable **40% reduction in data processing times** and optimizing resource utilization.
- Managed documentation for audit procedures, resulting in a **25% reduction** in completion time and improved stakeholder management.