Bhoomika Sarur

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# Summary

**Data Professional with Expertise in Analytics and Machine Learning**
Data Analyst with over 5 years of experience in delivering data-driven solutions using SQL, Power BI, and advanced analytics. Proficient in analyzing complex healthcare datasets, developing interactive Power BI dashboards, and supporting stakeholders with actionable insights. Demonstrated expertise in working with large datasets, optimizing data processes, and ensuring data integrity in healthcare and other data-intensive industries. Recognized for successfully enhancing decision-making processes and improving operational efficiency by 30-40% through data analysis and visualization techniques.

# Technical Skills

**Programming Languages:** Python, R, SQL, C#, Java, HTML, C++

**Healthcare & Data Warehousing:** Medicaid-related databases, Snowflake, SQL

**Data Science & Machine Learning:** BERT, spaCy, Data Preprocessing, Statistical Modeling

**Data Visualization & Analytics:** Power BI, Tableau

**Agile & Product Management:** Sprint Planning, BPMN, Agile Methodologies

**Project Management Tools:** Azure DevOps, Aha!, JIRA, Confluence

# Education

## Boston University; Boston, MA

- Master of Science in Applied Data Analytics | September 2022 – January 2024
- Master of Science in Management Studies | September 2021 – May 2022

## Manipal Institute of Technology; Manipal, India

- Bachelor’s Degree in Aeronautical Engineering | August 2015 – August 2019

# Professional Experience

## Sunray Enterprise, Inc.

## Medtronic; Florida, United States

*Medtronic is a global leader in medical technology, services, and solutions, aiming to improve healthcare outcomes through innovative solutions. The company operates in over 150 countries and specializes in advanced medical devices.*

**Data Scientist | Jan 2024 – Present**

* Engineered a high-performance BERT architecture, reducing model latency by 40 percent through precise tuning of hyperparameters and batch size optimization. This transformation enabled real-time NLP insights, delivering exceptional speed and efficiency.
* Enhanced keyword extraction and NER accuracy by 30 percent by integrating custom BERT embeddings with cosine similarity and TF-IDF. This created a highly precise model that captures nuanced insights, setting a new standard in contextual relevance for complaint categorization.
* Architected a distributed data pipeline with PySpark, cutting preprocessing time by 50 percent and enabling parallel processing of massive datasets. This optimization streamlined data workflows and provided seamless scalability for high-volume text analytics.
* Deployed an optimized BERT model with advanced distillation and weight-sharing techniques, reducing computational costs by 35 percent while preserving peak performance. This scalable deployment meets the dual demands of efficiency and real-time processing.

## Sunray Enterprise, Inc

## Intercontinental Exchange Inc; New York, United States

*Intercontinental Exchange (ICE) is an operator of global exchanges and clearing houses, including the New York Stock Exchange (NYSE). ICE provides market data, technology solutions, and exchange platforms for a wide range of financial sectors.*

**Data Analyst | June 2023 – December 2023**

* Developed SQL queries to manage API YAML integration, optimizing data extraction and real-time analytics, improving system efficiency by 30%.
* Created parsers and scrapers using C# to streamline data navigation from YAML files, enhancing data synchronization and improving system transparency for internal stakeholders.
* Improved data lineage and traceability systems, ensuring greater transparency and real-time visibility for decision-making across the organization.

## Town Sports International (TSI) ; New York, United States

*Town Sports International (TSI) operates one of the largest fitness club networks in the Northeastern United States, including brands like New York Sports Club (NYSC), Boston Sports Club (BSC), and Washington Sports Club (WSC).*

**Data Analyst (GIMS System Optimization) | March 2022 –April 2023**

* Analyzed data from the Gym Information Management System (GIMS) to provide actionable insights for optimizing member engagement, class schedules, and sales, leading to a 15% increase in member retention.
* Developed SQL queries to extract and clean transaction data from the POS system, improving data accuracy by 25% and streamlining reporting processes.
* Created Power BI dashboards to visualize key performance metrics, enhancing decision-making processes, and improving class availability and resource allocation by 40%.
* Collaborated with the development team to implement data-driven enhancements, ensuring data integrity and system optimization.

## Boston University Questrom School of Business; Boston, United States

*Boston University's Questrom School of Business is a highly ranked business school known for its focus on management, leadership, and entrepreneurship. The Build Lab at Questrom focuses on fostering innovation and entrepreneurship through startups.*

**Data Analyst at Build Lab | September 2021– Feb 2022**

* Developed Power BI dashboards to monitor startup performance, driving a 15% increase in participation through data-driven insights.
* Analyzed lab operations and performance using advanced Excel, delivering strategic recommendations for improving program efficiencies

## MAISTERING PVL; Bangalore, India

*Maistering is a digital consultancy and AI-driven platform that helps global enterprises improve their business meetings, processes, and decision-making with AI-powered tools*.

**Product Engineer (Functional Analyst) | July 2019 - July 2021**

* Directed the design and deployment of the AI-powered 'Meeting Maister' platform, reducing operational inefficiencies by 40% and improving team follow-up rates by 60%.
* Implemented BPMN workflows to optimize business processes, cutting turnaround times by 35% while enhancing transparency across various departments.
* Collaborated with cross-functional teams to translate stakeholder requirements into actionable user stories, streamlining the product development lifecycle.
* Conversation Designer
* Designed conversational flows for a voice-access AI platform, empowering CFOs and CXOs to make data-driven decisions using optimized corporate AI features.