Bhoomika Sarur

New York | bhoo7829mi@gmail.com| linkedin.com/in/bsarur/

Contact no.: 678-584-1312, XTN :236

# Summary

**Data Professional with Expertise in Analytics and Machine Learning**  
Over **5 years of experience** in leveraging advanced data analysis, machine learning techniques, and agile methodologies to deliver impactful solutions. Skilled in Python, R, SQL, BERT, and spaCy, with a focus on developing data-driven systems and optimizing processes. Adept at collaborating with cross-functional teams and translating complex business requirements into actionable strategies. Recognized for improving operational efficiencies and delivering high-impact, data-centric solutions that increase decision-making accuracy and resource allocation.

# Technical Skills

**Programming Languages**: Python, R, C#, SQL, Java, HTML, C++[bhoomikasep3@gmail.com](mailto:bhoomikasep3@gmail.com)  
**Data Science & Machine Learning**: BERT, NER, Data Preprocessing, Statistical Modeling, Logistic Regression, Multivariate Linear Regression, spaCy  
**Product Management**: BPMN, Agile Methodologies, Roadmap Strategy, Stakeholder Management  
**Data Visualization & Analytics**: Power BI, Tableau, Mixpanel, Amplitude  
Project Management: Azure DevOps, Aha!, Sprint Planning, Digital Marketing, Lean Six Sigma

# 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**

* Developed BERT-based NLP models: Built and deployed a BERT-based NLP tool for extracting and categorizing complaints, improving categorization accuracy by 30%.
* Leveraged PyTorch for NLP tasks: Implemented custom PyTorch models for Named Entity Recognition (NER), Part of Speech (POS) tagging, and keyword extraction.
* Streamlined large dataset analysis: Worked with large datasets using pandas and PySpark, optimizing preprocessing pipelines to reduce data cleaning time by 25%.
* Used cosine similarity for complaint clustering: Improved sorting accuracy using cosine similarity and advanced similarity metrics on complaint text.
* Built GUI for easy tool access: Designed and packaged the NLP tool into a GUI using PyInstaller, enabling non-technical users to easily access and use the tool.
* Deployed model into production environment: Packaged models for deployment, creating a scalable solution for the company’s complaint management system.

## 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.