**Bhoomika Sarur**

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# Summary

Over 5 years of experience applying advanced data analysis, machine learning, and system optimization techniques across diverse an industries such as healthcare, finance, and sports management. Proficient in using Python, R, SQL, C#, and BERT to develop data-driven solutions that enhance business processes and improve decision-making. Known for leveraging statistical models and data insights to drive operational improvements, including reducing complaint resolution times by 30% and increasing resource allocation efficiency by 40%. Adept at working collaboratively across teams, translating complex data into actionable insights, and building interactive dashboards to communicate key performance metrics. Strong foundation in agile methodologies and cross-functional project leadership, with a focus on delivering high-impact solutions through data-driven strategies.

# Technical Skills:

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

## Boston University; Boston, MA

* Master of Science in Applied Data Analytics 2024
* Master of Science in Management Studies 2022

## Manipal Institute of Technology; Manipal, India

* Bachelor’s Degree in Aeronautical Engineering 2019

**Professional Experience**

**Sunray Enterprise, Inc.**

**Medtronic Florida, United States Jan 2024 – Present**

**Data Scientist**

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.

* Developed a complaint management system using Python, leveraging BERT embeddings and spaCy NER for advanced keyword extraction, resulting in a 30% improvement in complaint resolution time.
* Created a Tkinter-based GUI application, enabling users to upload files, extract keywords, and sort complaints with real-time feedback and Excel output.
* Designed robust data preprocessing pipelines for handling CSV and Excel formats, improving data cleaning efficiency by 25%.
* Collaborated with the product and data teams to improve the overall performance and accuracy of machine learning models.

## Sunray Enterprise, Inc

## Intercontinental Exchange Inc, NY Jun 2023 – Dec 2023

**Data Analyst**

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.

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, NY Mar 2022 –Apr 2023**

**Data Analyst (GIMS System Optimization)**

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).

* 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 USA Sept 2021– Feb 2022**

**Data Analyst at Build Lab**

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.

* 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 Jul 2019 - Jul 2021**

**Product Engineer (Functional Analyst)**

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.

* 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 feature