

Personal
Information

Yogita Singh

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Profile

6+ years of experience in Data Science, Data Analytics, Business Intelligence, and handling extremely complicated text intensive healthcare data, to transform into actionable insights, using statistical methods, machine learning and visualization to enhance data driven decisions. A Data Scientist with experience in handling end to end product pipeline and deployment in a startup environment, seeking to leverage analytical and technical expertise to contribute to a dynamic team at a technology company.

Certifications

AWS Certified Machine Learning Specialty
AWS Certified Cloud Practitioner

Education

MS in Data Science, University of St. Thomas, St. Paul, Mn, USA
MBA, Institute for Integrated Learning in Management, Delhi, India
B.Sc. (Physics Hons.) | University of Delhi, Delhi, India

Work
Experience

Data Scientist II – Heliometrics Inc  Oct 2018 – present

- Managing high-volume healthcare data pipeline (1+ TB/month) across 19 hospital groups (US), to uncover critical insights, leading to 35% improvement in regulatory compliance and patient safety.
- Designed and built data pipelines for efficient data ingestion, transformation, and analysis from 14 different healthcare source systems (e.g., prescriptions, claims data, Electronic Health Record data etc.) for 19 different hospital groups.
- Streamlined drug distribution process by identifying inefficiencies and bottlenecks, using advanced analytic techniques and implemented Time series forecasting models leading to 15% cost reduction in supply chain management of drugs for our clients.
- Developed and implemented machine learning classification model to identify patterns and predict potential drug diverters (i.e. personnel involved in drug fraud), to automate fraud detection, reducing manual review time by 70%, enabling a 40% increase in early detection rates, safeguarding patient health and cost savings.
- Utilized clustering analysis and Anomaly detection to uncover previously unknown diversion (fraud) methods, hidden patterns and anomalies in prescription data, leading to a 20 % increase in diversion detection accuracy.
- Simplified complex code, normalized and streamlined data structures. This improved data accuracy and helped reduce tech debt by 80 %. Also helped improve maintainability, reusability, and scalability of code.
- Optimized fraud detection monitoring systems, by integrating 14 disparate source systems for a more comprehensive analysis, ensuring data quality by addressing missing values, inconsistencies and standardizing data formats across different systems to enhance efficiency by 40% and reducing false positives by 15%.
- Built interactive Tableau dashboards (prescription monitoring, dispensed substances, provider network and more) leading to, 30% increased user engagement, 25% faster intervention, improved resource allocation & patient safety.

Data Science Intern, Fire Dept, MN, USA  July 2018 - Sep 2018

- Performed forecasting and Time series analysis on the historical call data to develop a call surge prediction model for better resource planning during peak hours, days and months.
- Built a computer vision model (using Mask RCNN) to analyze and do an early fire detection amongst the fire scene images, prioritizing investigations based on potential origin identification and hence potentially expediting the investigations.

Faculty Associate, Marketing, IILM University, Delhi, India  May 2012 – Dec 2015

- Helped design and deliver courses in Marketing Research, Consumer Behavior and Marketing Management, incorporating data analysis techniques and case studies.
- Empowered students to extract insights from real world data to do marketing analysis, fostering critical thinking and data literacy.
- Contributed to the development of research papers by assisting professors with research design, data collection and analysis for Consumer behavior studies.

Key Technical
Skills

Python, Data Analysis, Machine Learning, Statistical Modeling, Tableau, SQL, Cloud AWS, Amazon Sagemaker, TensorFlow, PyTorch, NLP, Predictive Analytics, Time Series Forecasting, Data Engineering, Docker, FastAPI, Data Visualization, Data Cleaning, Data Modeling and ETL , Presentation and Communication skills

Volunteering

Vice President, Public Relations | Toastmasters, Austin, Texas, USA | May 2024 – Present
English Language Facilitator, AAM Foundation, Delhi, India | Mar 2014 – Nov 2014