

Jay Bharti

Healthcare Administration Graduate | Data Analytics & Process Improvement Specialist

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Summary

Healthcare Management graduate (MHA) with expertise in Data Analytics, Process Engineering, and strategic operations. Led a national award-winning quality improvement project achieving 95% reduction in plasma bag breakage (28 breakages/month to 0-1) and ₹2.6L annual cost savings. Skilled in translating complex clinical workflows into scalable technical solutions using Python, Statistical Modeling, and Lean Six Sigma methodologies. Currently architecting RAG-based AI systems to centralize hospital operations data. Seeking roles in strategic business planning and business development within healthcare organizations.

Education

Prasanna School of Public Health, Manipal Academy of Higher Education (MAHE)

Master of Hospital Administration (MHA)

8.88 CGPA (First Year)

August 2024 – Present

Class Representative (1st Year)

Coursework: Quality Management in Health Care, Applied Management, Organizational Behaviour, Biostatistics, Accounts & Finance in Healthcare, Bioeconomics

Manipal University Jaipur

Bachelor of Science (Hons.) Biotechnology

8.81 CGPA

October 2021 – April 2024

Final Year Thesis: Computational Screening of FDA-Approved Compounds Against Drug-Resistant MRSA – narrowed 3000+ molecules to 2 high-potential therapeutic candidates through multi-stage validation

Experience & Key Projects

NextGen (Unit of Prasanna School of Public)

Technical Team Lead

MAHE, Manipal

October 2024 – Present

Architecting a RAG-based AI dashboard to centralize hospital operations data, serving as the technical liaison between hospital administrators (domain experts) and Manipal Institute of Technology (MIT) developers.

Translating complex Hospital Information System (HIS) data variables into actionable technical schemas, ensuring accurate interpretation of clinical and operational workflows for AI model training.

Leading the pilot implementation across 5 core departments, projected to reduce administrative data retrieval time by 60% through streamlined cross-departmental data access.

Quality Improvement Initiative

Project Lead

MAHE, Manipal

January 2025 – September 2025

Led a 6-member cross-functional team through a DMAIC (Define, Measure, Analyze, Improve, Control) cycle to resolve critical supply chain inefficiencies in blood bank operations, analyzing 24 months of operational data.

Conducted Value Stream Mapping (VSM) and Root Cause Analysis (RCA) across plasma bag handling workflows, identifying process failures that caused 28 breakages per month.

Designed and piloted a patent-pending packaging solution that reduced plasma bag breakage by 95% (from 28/month to 0-1/month), delivering projected annual cost savings of ₹2.6 Lakhs and securing the National Winner title at the Qimpro QualTech Education Prize.

Structural Biology & Bioinformatics Lab

Undergraduate Researcher

Manipal University Jaipur, Rajasthan

March 2022 – October 2024

Developed a high-throughput computational screening pipeline to evaluate 3000+ FDA-approved compounds against MRSA targets, utilizing Pharmit for functional group filtering and multi-stage validation.

Executed advanced statistical validation using R (Normal Mode Analysis & PCA) and Molecular Dynamics simulations (Gromacs), narrowing datasets to 2 high-potential therapeutic candidates and establishing a reproducible workflow for computational drug discovery.

Leadership & Management

SVASTH - 25

Student Secretary

MAHE, Manipal

September 2025 – October 2025

Directed a Core Committee and supervised functional heads across Marketing, Finance, and Scientific Operations to execute a 2-day national conference for 215+ attendees.

Oversaw end-to-end operations including vendor negotiations, budget allocation (₹1.8 Lakhs), and speaker liaison, ensuring seamless logistics and delegate experience.

Department of Biosciences & IAESTE

Corporate Connect Coordinator

Manipal University Jaipur, Rajasthan

April 2022 – January 2024

Established strategic partnerships between industry and academia by negotiating 18 MoUs with startups for student internships and curating technical seminars for 200+ students (UG, PG, & PhD).

Managed corporate relations and end-to-end event logistics, serving as the primary liaison between university leadership and industry partners.

Student Research Council

Core Member

MAHE, Manipal

August 2024 – August 2025

Organized academic initiatives including NCD awareness campaigns and research poster competitions, engaging 150+ students to foster scientific inquiry and public health awareness.

Skills

Operations & Management

Lean Six Sigma, Process Improvement, Project Coordination

Data Analytics

Python, R, Power BI, Advanced Excel, RAG-based AI Systems

Research & Science

Biostatistics, Molecular Dynamics, Data Simulation, Research Methodology

Certifications

Lean Six Sigma Yellow Belt

Annexas Europe

2025

<https://is.gd/5tGFKz>

Python Data Structures & Web Data

University of Michigan (coursera)

2022

<https://is.gd/yVBaPU>

Supply Chain Management Specialization

Rutgers University (Coursera)

2025

<https://is.gd/evCkfr>

SARS-CoV-2 Protein Modeling and Drug Docking

Coursera

2022

<https://is.gd/Rc4Jb1>

Awards

National Winner - QualTech® Prize Education

Qimpro Foundation

September 2024

Recognized for innovative process improvement solution achieving 95% reduction in plasma bag breakage and ₹2.6L annual cost savings.

Best Student Award

Manipal University Jaipur

March 2023

Overall excellence in academics and co-curricular activities.

Languages

English

Professional Fluency

Hindi

Native Speaker

Gujarati

Proficient