

# SHALINI JAMES PAULRAJ

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Dedicated and results-driven graduate student seeking to apply academic knowledge, strong analytical skills, and a proactive attitude to contribute effectively in a professional environment while embracing the values of professionalism, ownership, and work ethics.

## EDUCATION

### Hult International Business School, Boston, MA

*Master of Science (MS), Business Analytics, | Major: Global management organization*

**Oct 2024-Apr 2025**

- Relevant Coursework:** Computational data analytics, Business with unstructured data using R (MongoDB), AWS, Business statistics, Machine Learning with AI, Business modelling and optimization, Data management.

*Master of Science (MS), International Business, | Major: Business Analytics*

**Oct 2023-Sep 2024**

- Relevant Coursework:** Business Intelligence, International Strategy & Acquisition, Data Visualization, Financial modelling, Project, Marketing & Sales Management.

### SRM Institute of Science and Technology, Chennai, India

*Bachelor of Technology, Biotechnology, | Major: Genetics*

**Aug 2018- Sep 2022**

- Relevant Coursework:** Cell & Molecular Biology, Microbiology, Stem cell & Cancer Biology, Immunology, Gene technology, Bioprocess development

## SKILLS

**Core Technical Skills:** SQL, Python, R, Azure, Data Science, Machine Learning Models, M

**Software/Tools:** Microsoft Azure, AWS, MongoDB, Google sheets, Confluence, Microsoft SQL, Microsoft

Excel, Power BI, Quciksight, Tableau, ETL process, Google Collab, Google Analytics, Power Automate

**Management Skill:** Project Management, Cross-functional Team Leadership, Agile Methodologies

## WORK EXPERIENCE

### Clinical Data Analyst, Billroth Hospital, Chennai, India

**Oct 2022- Apr 2023**

- Ensured accurate clinical outcomes by directly monitoring Clinical Pathology and Bio-Chemistry tests.
- Operated key laboratory instruments (Bockman Coulter AU480, Access 2, Unilite 6+ -1, HBA1C, ESR Analyser, LH750) to support diagnostics.
- Leveraged business analytics to streamline data reporting and optimize testing processes for enhanced efficiency.

### Undergraduate Research Assistant- Bioengineering Dept., SRM University, India

**Sep 2020- Apr 2022**

- Engineered chitosan-tripolyphosphate nanoparticles encapsulating rutin for dual antibacterial and anticancer therapy, optimizing controlled release via in vitro assays.
- Co-led a multidisciplinary team spanning pharmaceutical, microbiological, and oncological fields to design and evaluate the formulation.
- Applied techniques including DLS, zeta potential, MTT assays, bacterial inhibition tests, and fluorescence microscopy for nanoparticle characterization.

## RECENT ACADEMIC PROJECTS

### Strategic Miami Expansion Initiative, TNG

**Oct 2023- Oct 2023**

- Increased TNG's e-commerce by 20% and retail sales by 15% through a Miami expansion strategy, achieving 20% market awareness in Q1 via AI and sustainability initiatives.

### Retail Demand Forecasting Web Application, Independent Project

**Jan 2023- May 2022**

- Developed an R Shiny web application that reduced operational wastage by 30% through precise retail demand forecasting and optimized resource allocation.

### Financial Modeling for Asset Optimization, Hedge Fund Client (Steven Cohen Project)

**Sep 2021- Dec 2021**

- Engineered a Wells Fargo financial model using Python and SQL, optimizing asset allocation and risk management to deliver a 41.93% annual return for a high-risk investor.

## EXTRACURRICULAR ACHIEVEMENTS

- Awarded *Performance-Based Dean's Scholarship*, SRM University, 2018.
- Volunteered for Techno events budget planning & co-organized Departmental (Biotechnology) career fair at SRM University, 2018-2020.
- Publication:**
  - Chitosan-Tripolyphosphate Nanoparticle-Mediated Delivery of Rutin for Inhibition of Bacterial Growth and Pancreatic Cancer Cell Proliferation, *Journal of Pharmaceutical Science*, Lead Researcher and Author, published in 2023.
  - Nano-Biosensors for Rapid Virus Detection: Evaluating Advanced Techniques for Public Health Monitoring, *Frontiers in Nanotechnology*, Co-author, published in 2022.
  - Long Non-Coding RNAs and miRNA Interactions as Therapeutic Biomarkers in Lung Cancer, *Molecular Biology Reports*, Author, published in 2022.

## CERTIFICATION

- Google Data Analytics Professional Certificate (Coursera)
- Certified Market Research Analyst (CMRA) – Market Research Institute International
- Microsoft Certified: Power BI Data Analyst Associate
- Data Analyst Professional Certificate (DataCamp)