

CHRIS DSILVA

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EDUCATION

Princeton University, Princeton, New Jersey <ul style="list-style-type: none">ORF 535 Financial Risk and Wealth Management	Sep 2023 – Dec 2023
Rutgers University, New Brunswick, New Jersey, (GPA: 3.833) <ul style="list-style-type: none">Master of Science in Industrial and Systems EngineeringRelevant Coursework: Data Analytics for Engineering Systems, Supply Chain Engineering, Quality Management, Simulation of Production Systems, Project Management (RBS), Risk Analysis and Mitigation, Production Analysis	Sep 2022 – Mar 2024
University of Mumbai, Mumbai, India <ul style="list-style-type: none">Bachelor of Engineering in Mechanical Engineering	Jul 2016 - May 2020

WORK EXPERIENCE

Hikma Pharmaceuticals (Compounding 503B) – Graduate Engineering Intern <ul style="list-style-type: none">Oversaw calibration and validation of over 50 types of equipment in compliance with internal standards and FDA/DEA guidelines, significantly enhancing operational reliability and adherence to quality standards. Developed and implemented a Blue Mountain software-based calibration forecasting system, boosting scheduling efficiency by 5% and minimizing equipment downtime, thereby preventing potential regulatory issuesExecuted Installation, Operational, and Performance Qualification (IOPQ) for new equipment, improving long-term reliability by 10% and ensuring compliance with regulatory standards in collaboration with QA and manufacturing teams	May 2023 – Aug 2023
Accutech Power Solutions – Production Planning (Mumbai) <ul style="list-style-type: none">Streamlined repair processes for telecom tower rectifier modules and redesigned production line layouts, employing lean manufacturing and line balancing techniques and 2D/3D CAD software. Achieved a 10% reduction in repair time and increased overall production efficiency.Optimized sales strategy and operational efficiency by targeting specific regions and zones in quarterly analysis, leading to a 3% increase in sales performance in Q2 2022.	Jan 2022 - Jul 2022
Jude Electronic Products - Production Engineer (Mumbai) <ul style="list-style-type: none">Led a 6-member production team and implemented just-in-time (JIT) inventory strategies along with demand forecasting, significantly reducing stockouts and overstocks, which streamlined inventory management and improved overall operational efficiency	Nov 2020 - Dec 2021

KEY PROJECTS

Princeton University Financial Analysis and Strategy Consulting Report <ul style="list-style-type: none">Created a comprehensive financial analysis for a \$1.5M condo purchase, utilizing Monte-Carlo simulation to project a \$500k down payment growth. Evaluated various 10-year investment strategies, including a 70/30 SPY/TLT allocation, considering a 25% capital gains tax rate. Assessed feasibility over 5, 7, and 10-year periods and analyzed impacts of fluctuating salary growth rates and investment returns. Developed dynamic investment recommendations adaptable to evolving financial goals and market conditions, emphasizing a client-centric approach	Sept 23 - Dec 23
Rutgers University Efficient 3D Grid Pathfinding with RL Optimization <ul style="list-style-type: none">Implemented a Reinforcement Learning (RL) algorithm to guide agents through a complex 3D grid environment efficiently, optimizing pathfinding while avoiding obstacles. Achieved optimal agent behavior through RL training, emphasizing efficient algorithm design. Generated animated visualizations of the agent's optimal paths for comprehensive analysis	Sept 23 – Dec 23
Solar Canopy Project Proposal (Eng. Economics) <ul style="list-style-type: none">Developed a comprehensive engineering project proposal for a solar canopy project, including engineering analysis, financial budget proposal, probabilistic risk analysis, sensitivity analysis, and strategic recommendations	Sep 23 – Dec 23
Premier League Prediction Project <ul style="list-style-type: none">Developed a Premier League standings prediction project using regression models and conducted data visualization	Sep 2022 –Dec 2022

PROFESSIONAL AFFILIATIONS

Member of Institute for Operations Research and the Management Sciences (INFORMS) Chapter at Rutgers New Brunswick	Jan 2023 – Present
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SKILLS

- Software: Flexsim, MS Office (Excel, PowerPoint), AutoCAD, SolidWorks, Ansys (Mechanical APDL), Tableau, Arena, Power BI,
- Programming: Python, R, MATLAB