**Master’s Resume Sample**

Binghamton, NY | (123) 984-0872 | mresume1@binghamton.edu | www.linkedin.url.com

**EDUCATION**

**Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science** *Master of Science in Industrial and Systems Engineering*   *May 2023*

**Cumulative GPA:** 3.82/4.00 | Clark Fellowship

**Relevant Coursework:** Applied Probability and Statistics, Collective Dynamics of Complex Systems, Operations Research, Integrated Manufacturing, Industrial and Systems Engineering in Healthcare, Computational Tools, Modeling and Simulation

**Manipal Institute of Technology, Manipal, India**

*Bachelor of Science**in**Electrical and Electronics Engineering*  *May 2021*

**Cumulative GPA:** 3.56/4.00

**Relative Coursework:**  Integrated Lighting Design, Data Structures and Algorithms, Energy Auditing and Management, Computer Networks, Electrical Machines

**TECHNICAL SKILLS**

**Languages:** LabVIEW, MATLAB, AutoCAD, Simio, Python

**Software:** Arena, Minitab, Microsoft Visio, Microsoft Project, SOLIDWORKS

**Additional:** Google Workspace, Microsoft Office Suite

**Certifications:** Lean Six Sigma Green Belt, Lean Six Sigma Black Belt

**RESEARCH EXPERIENCE**

**Item Based Collaborative Filtering Using Mutual Information |** Binghamton, NY  *January 2023 – May 2023*

* Developed a Recommender system utilizing extensive data from hundreds of users and their preferences, resulting in accurate and personalized movie recommendations
* Implemented Collaborative Item-Based Filtering technique to meticulously analyze and filter movies based on the precise ratings provided by users
* Executed a Python program utilizing the Mutual Information technique to generate movie recommendations
* Validated the technique's through a 50% reduction in processing time and decreased complexity

**Comparative Analysis of Patient Readmission Models |** Binghamton, NY  *September 2022 – December 2022*

* Conducted an algorithmic comparison to optimize factors influencing patient readmission rates
* Identified significant factors impacting patient readmission using multiple regression and Boruta importance
* Analyzed various algorithms (e.g., Artificial Neural Networks, Support Vector Machine, Random Forest) to determine the most accurate model
* Achieved unprecedented 100% accuracy, surpassing the performance of existing literature in the field

**Baccalaureate Thesis: Reliability and Lifetime Estimation of LEDs |** Manipal, India *January 2022 – May 2022*

* Devised and executed an analytical methodology to accurately estimate the lifespan of solid-state luminaires
* Executed times series modeling using extensive laboratory data in Mathematica for lifetime estimation
* Leveraged Minitab for conducting reliability analysis, enabling the provision of quality improvement recommendations
* Presented the thesis paper at the annual IEEE conference (RTEICT 2021) in Bangalore, India, and earned subsequent publication in journal IEEE Xplore

**PROFESSIONAL EXPERIENCE**

**Binghamton University,** *Global Health Impact Research Assistant* **|** Binghamton, NY  *January 2022 – August 2022*

* Gained expertise in citation editing, literature reviews and journal paper formatting for several published works
* Assisted in building coursework, curriculum and subject material for PhD and masters-level courses

**Computer Maintenance Corporation,** *Corporate Research Intern* **|** Manipal, India  *June 2021 – July 2021*

* Completed a four-week summer internship with the research team to gain experience with GPS display units
* Executed the “GPS Accuracy Status Display” of a GPS module by using Keil uVision4 and 8051 Microprocessor
* Utilized the code to successfully improve the container management for the company

**PUBLICATIONS**

Almeida-Junior, M., **Prado, M.** Oliveira, T., & Sakai, T. (2020). Effect of single and multiple doses of low-level laser therapy on viability and proliferation of stem cells from human exfoliated deciduous teeth (SHED). *Lasers in Medical Science*, *34*(9), 917–924. <https://doi.org/10.1007/s10103-019-02836-y>

**ACHIEVEMENTS AND AWARDS**

* Winner of the annual Inter Manipal University parliamentary 2021 debate with a participant size of 1,000
* Speaker of the Year and Mumbai Representative at Horlicks Wiz Kids 2020, a national talent festival
* Winner and speaker at the Manipal Conclave 2020, in the presence of award-winning laureates as guest speakers