

RINDHUJA TREESA JOHNSON

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EDUCATION

University of Maryland Baltimore County (UMBC)

Expected Graduation: May 2024

MPS: Data Science

GPA: 4.0/4.0

Skills: Machine Learning in Python, Geospatial Data Analysis using R, Big Data using PySpark, Data Management with SQL

Pondicherry University, Puducherry

July 2017 - May 2022

M.Sc. in Physics: 5-year Integrated Master's Program

CGPA: 9.02/10.0

Specialization: Electronics

PROJECTS AND INTERSHIPS

“Steam Review Analysis using Apache Spark and Hadoop”

- Led a group of three on a project based on Big Data Processing technologies to analyze the reviewers on the Steam gaming platform
- Derived insight on how the reviewing trend changed throughout 2021 implementing analysis on games, languages, time, and authors.
- Developed a game recommendation algorithm using the Alternating Least Squares ML model based on existing players' gaming history
- Technologies used: PySpark (SQL and ML library), HDFS, Python libraries

“Analyzing and Visualizing the Motor Accidents in Maryland Counties”

- Conducted in-depth Exploratory Data Analysis (EDA) on motor crashes in Maryland, focusing on crash fatality levels (Property Damage, Injury, and Fatal).
- Analyzed crash frequency and performed basic counts grouped by county to identify high-risk areas in the state.
- Demonstrated proficiency in version control using Git and GitHub, ensuring collaborative development and effective project management.
- Developed a comprehensive mapping project highlighting crash-prone areas in Maryland, integrating data with OpenStreetMap for enhanced safety measures.
- Tools used: RStudio (R), GitHub, Quarto, RevealJS

“A comparative analysis of different Machine Learning models on the MNIST data set”

- Used different prediction metrics to compare the effect of various classifiers and clusterings on a single data set
- Models used: PCA, Linear SVM, radial-based SVM, Random Forest, LDA, QDA, K-Means

“Mathematical and Statistical Analysis on the effect of COVID-19 on the Internet Infrastructure and a case study on its effect on people at Pondicherry University”

- Collected, cleaned, analyzed, and visualized data on Internet Usage and Infrastructure in India before and during COVID-19.
- Utilized MS Excel, and Python3 on the Jupyter environment, and deployed PCA and SVD
- Conducted an online survey on how people used the internet during COVID-19 and analyzed it for comparison

EXPERIENCES

***Graduate Grader/Tutor (GGT)**

Anticipated Start Date: 21st Jan 2024

Data Science Program, UMBC

- Evaluate and grade assignments, exams, projects, and other assessments per established grading criteria, and offer constructive feedback to students on their assignments.
- Collaborate with course instructors to ensure consistency in grading, and preparing course materials, including lecture notes, problem sets, and additional resources
- Conduct regular office hours to provide one-on-one or small group assistance to students seeking clarification on course concepts.

Orientation Advisor*Jan 2024**Office for Academic & Pre-Professional Advising, UMBC*

- Guiding Freshmen in course scheduling after reviewing their prior coursework and discussing their interests
- Documentation of advising notes to improve advisee experience and develop strong interpersonal communication with the advisee to understand their goals and work as a team
- Provide effective and reliable mentorship for dilemmas faced by students from my own experiences and directing them to the appropriate personnel for aid

RTTP Math Coach*Oct 2023 - Present**UMBC Sherman Scholars' Program*

- Helping elementary/middle school students capture basic mathematical concepts with pre-planned and well-structured Session Frameworks and practice problems.
- Engaging students in math-related activities and helping them appreciate it more.
- Communicating the difficulties faced by students and assisting them in overcoming them.

General Associate/Graduate Coordinator*July 2023 - August 2023**Academic Engagement and Transition Programs, UMBC*

- Co-facilitate weekly academic transition workshops to successfully impart valuable skills to incoming freshman
- Plan and implement out-of-academic engagement activities including various off-site opportunities and social events to promote connection to UMBC
- Design, collect, and analyze weekly assessment data to study the impact and effectiveness of current programming on incoming freshmen

Social Media Associate*September 2022 - October 2022**Redwood Algorithms*

- Conducted one-on-one consultations with over five business clients and companies to understand their social media objectives and target audience
- Actively listened and demonstrated effective communication skills to meet client requirements and translated their vision into engaging social media posts to increase customer engagement
- Provided valuable suggestions on incorporating recent social media trends into advertisement programming to enhance brand visibility and reach
- Balanced client preferences with effective content strategies, ensuring a visually appealing and compelling social media presence

TECHNICAL SKILLS

- Programming Languages - Python3 (3+ years), R, C++, HTML, SQL
- Big Data handling - Apache Spark, Hadoop
- Google Apps(Docs, Sheets, Slides, Meet, Drive, Calendar) and MS Office (MS Word, MS Excel, MS PowerPoint, To-do)
- Data Storage: HDFS
- Data Management and Querying: MySQL, Microsoft SQL Server
- Data Modeling, Data Analysis, Data Visualization, Machine Learning, Deep Learning

INTERPERSONAL SKILLS

- Excellent Communication skills to convey information and influence others
- Leadership, Management, and Strategizing skills to build a strong team
- Time management, Problem-solving, and Teamwork skills for timely and quality delivery

LEADERSHIP EXPERIENCE*Class Representative, Pondicherry University**July 2017- May 2022*

- Integrated M.Sc. in Physics Class of 2022

CERTIFICATION - IBM Data Science Professional Certificate, Coursera**ACHIEVEMENTS**

- Graduate Aptitude Test in Engineering (GATE 2022), Joint Admission for M.Sc. (JAM 2020)
- Valedictorian - Pondicherry University
- Principal's Trophy for the Best Outgoing Student (Class XII - 2017)
- All India CBSE Athletic Meet Participant - 2016 & 2017