

RINDHUJA TREESA JOHNSON

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EDUCATION

University of Maryland Baltimore County (UMBC)

Expected Graduation: May 2024

MPS: Data Science

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

GPA: 4.0/4.0

Pondicherry University, Puducherry

July 2017 - May 2022

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

Specialization: Electronics

CGPA: 9.02/10.0

PROFILE

Insightful Data Science graduate student with immense technical and human potential to bring the best in every situation. The prowess of mathematics and the curiosity of a Physicist combined with the enthusiasm to work and maintain an organized and balanced life keeps me on top of the game.

PROJECTS AND INTERNSHIPS

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

Factors affecting monsoon in the Indian subcontinent at Cochin University of Science and Technology

- Utilized MS Excel and Ferret to analyze the different parameters that affect the annual monsoon in India, especially Kerala.
- Extended further on how these monsoons affect the epidemic cycle in Kerala.

EXPERIENCES

UMBC Sherman Scholars' Program

Oct 2023 - Present

Math Coach

- Helping elementary/middle school students in capturing the mathematical concepts of their interests.
- Engaging students in math-related activities and helping them appreciate it more.
- Understanding the difficulties faced by students and assisting them overcome them.

University of Maryland, Baltimore County*July 2023 - August 2023**General Associate/Graduate Coordinator at Academic Engagement and Transition Programs*

- 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

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

- 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

- Proficient in Python3 - 3+ years of experience
- Intermediate in R, C++, GitHub, handling big data using Apache Spark (PySpark)
- Data Analysis, Data Visualization, Prediction models, Machine Learning, Deep Learning
- Expert in Google Apps - Docs, Sheets, Slides, Meet, Drive, Calendar
- Expert in MS Office Products - MS Word, MS Excel, MS PowerPoint, To-do
- SQL, Data Management, Querying, Data Analysis

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 AND VOLUNTEERING EXPERIENCES

Class Representative, Pondicherry University

July 2017- May 2022

- Integrated M.Sc. in Physics Class of 2022

COURSES

- IBM Data Science Professional Certificate, Coursera
- German Language Certificate, Pondicherry University

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