

# Rindhuja Treesa Johnson



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## Education

### Master's in Data Science

University of Maryland Baltimore County · Catonsville, MD

05/2024

- Courses: Machine Learning in Python, Geospatial Data Analysis using R, Big Data using PySpark, Data Management with SQL, and Financial Data Science
- Hands-on experience on about 8 projects using Python, R, Apache Spark, SQL
- CGPA: 4.0

### M.Sc. in Physics

Pondicherry University · Kalapet, Puducherry

05/2022

- Graduated valedictorian with CGPA of 9.02
- Thesis work on Data Analysis project with MS Excel and Python libraries

## Skills

- *Languages:* SQL, Python3, (Pandas, Matplotlib, NumPy, Sci-kit Learn, Seaborn), R, RStudio, C++, HTML
- *Data Storage and Management:* Apache Spark, HDFS, MS SSMS (Microsoft SQL Server Management Studio), MySQL, AWS, NoSQL Workbench, AWS Dynamo DB, Databricks
- *Data Analysis:* MS Excel, ETL, EDA, Google Analytics
- *Data Visualization and Dashboard:* Plotly, PowerBI
- *Others:* Git, GitHub, Google Apps, Microsoft Office, Meta Business Suite, Google Ads, Microsoft Teams

## Experience

### Graduate Assistant

University of Maryland Baltimore County · Catonsville, MD

01/2024 - Present

- Course: Platforms for Big Data Processing - AWS, Databricks, Apache Spark, Cassandra DB, Mongo DB, Hadoop
- Evaluate and grade student works as per established grading criteria, and offer constructive feedback
- Collaborate with course instructors to ensure consistency in grading, and preparing course materials
- Conduct regular office hours to assist students in seeking clarification on course concepts

### RTTP Math Coach

University of Maryland Baltimore County · Catonsville, MD

10/2023 - Present

- Manage elementary/middle school students and help them capture basic mathematical concepts
- Plan, design, and execute well-structured Session Frameworks and practice problems
- Communicate the difficulties faced by students and assist them in overcoming them

### Orientation Advisor

University of Maryland Baltimore County · Catonsville, MD

01/2024 - 01/2024

- Guided Freshmen in course scheduling after reviewing their prior coursework and discussing their interests
- Engaged in two-way communication with the advisee to understand their goals and work as a team
- Provided effective and reliable mentorship for dilemmas and directed them to the appropriate personnel for aid

### Social Media Associate

Redwood Algorithms · Bangalore, Karnataka

09/2022 - 10/2022

- Conducted meetings with five business clients to understand their social media objectives and target audience
- Increased customer engagement by 200% by meeting client requirements and translating their vision into engaging social media posts
- Provided valuable suggestions on incorporating social media trends into ads to enhance brand visibility and reach

- Balanced client preferences with effective content strategies, ensuring a visually appealing and compelling social media presence

## Projects

### *“Time-series Analysis of Exchange Rates of Foreign Currencies with US Dollar” (Ongoing)*

- Time-series analysis using the ARIMA model on the FRED Foreign Exchange data
- Create an interactive Dashboard with Power BI of the Exchange rates of 5 different countries
- Integrates Python with the FRED API enabling auto-updation of data with the latest release

### *“Customer Lifetime Value Prediction for Auto-Insurance Companies” (Ongoing)*

- Provide Insurance companies an insight into the profit they can get from investing in a client
- Utilize AWS S3 bucket for data storage by setting up API access with Python using Google Colab
- Develop a Power BI dashboard with CLV for different Insurance policies and premiums
- Host a website that predicts CLV for clients and/or companies based on the best ML model

### *“Steam Review Analysis using Apache Spark and Hadoop”*

- Led a group of three to analyze the reviewers' engagement on the Steam App with Big Data techniques
- Derived insights on the change in the trend throughout 2021 based on games, languages, time, and authors
- Developed a recommendation algorithm using the Alternating Least Squares ML model based on 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
- Developed an interactive map highlighting crash-prone areas in Maryland, integrating data with OpenStreetMap
- Tools used: RStudio (R), GitHub, Quarto, RevealJS

## Certificates

- IBM Data Science Professional Certificate
- Data Analysis with Microsoft Excel

## Awards

- Valedictorian - Pondicherry University
- GATE 2022, JAM 2017
- Principal's Trophy for Best Outgoing Student – 2017
- All India CBSE National Athlete - 2016, 2017

## Hobbies & Interests

Badminton, Journaling, Learning