

# RINDHUJA TREESA JOHNSON

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## EDUCATION

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**Master's in Data Science**, University of Maryland Baltimore County Expected May 2024  
Machine Learning with Python, Geospatial Data with R, Big Data with Apache Spark, and Financial Data Science  
CGPA: 4.0/4.0

**Master's in Physics**, Pondicherry University May 2022  
Specialized in Electronics  
CGPA: 9.02/10.0

## SKILLS

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<b>Technical Skills</b>	SQL, Python3, R, C++, HTML, DAX
<b>Expertise</b>	Big Data, Data Collection, Cleaning, Manipulation, Modeling, ETL, EDA, Machine Learning
<b>Platforms</b>	MS Excel, MS Power BI, MS PowerPoint, Plotly, Oracle MySQL, Apache Spark, RStudio, HDFS, MS SSMS, AWS, Databricks, Google Analytics, Git, GitHub, Google Apps, Microsoft Office, Meta Business Suite, Google Ads, Microsoft Teams
<b>Soft Skills</b>	Communication, Time & People Management, Problem-solving, Critical thinking, Attention to detail, Adaptable & Team player

## EXPERIENCE

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**Graduate Assistant** Jan 2024 - Ongoing  
University of Maryland Baltimore County *Catonsville, MD*

- Course - Platforms for Big Data Processing
- 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** Oct 2023 - Ongoing  
University of Maryland Baltimore County *Catonsville, MD*

- 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** Jan 2024 - Ongoing  
University of Maryland Baltimore County *Catonsville, MD*

- Guided Freshmen in course scheduling after reviewing their prior coursework and discussing their interests, contributing to an overall 4.73 rating to the program
- Engaged in two-way communication with the advisee to understand their goals and work as a team
- Provided reliable mentorship for dilemmas and directed them to the appropriate personnel for aid

**Social Media Associate** Sept 2022 - Oct 2022  
Redwood Algorithms *Bangalore, India*

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

## PROJECTS

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**Time-series Analysis of Exchange Rates of Foreign Currencies with US Dollar** Developed a time-series analysis and forecasting model using the ARIMA model on the FRED Foreign Exchange data to create an interactive Dashboard with Power BI of the Exchange rates of 5 different countries and integrate Python with the FRED API enabling auto-updation of data with the latest release

**Customer Lifetime Value Prediction for Auto-Insurance Companies** Deployed ML for customer lifetime value (CLV) prediction and segmentation, driving targeted marketing strategies, by utilizing AWS S3 bucket for data storage by setting up API access with Python using Google Colab, developed a Power BI dashboard with CLV for different Insurance policies and premiums, and hosted a website that predicts CLV for clients and/or companies based on the best ML model

**Steam Review Analysis using Apache Spark and Hadoop in Python** Led a group of three and sighted a 40% increase in the number of reviews in Nov 2021. We derived that only up to 30% of players recommend a game by providing a review and 35% is in English language, and developed a recommendation algorithm using the Alternating Least Squares ML model based on gaming history

**Analyzing and Visualizing the Motor Accidents in Maryland Counties in R** Conducted in-depth EDA on motor crashes in Maryland, focusing on crash fatality levels, analyzed crash frequency and found Prince George's and Baltimore counties reported above 40% of the crashes. Demonstrated proficiency in Version Control using Git and GitHub, and developed an interactive map highlighting crash-prone areas in Maryland, integrating data with OpenStreetMap

**Automatic Light-Intensity Sensor using Arduino Uno and LDR** The LDR detects any change in intensity of light falling on it and passes the information to the Arduino board, the program quantifies the intensity and sends back the message to Arduino, and it lights one, two, or three LEDs based on the intensity of light falling on the LDR.

## CERTIFICATIONS & ACHIEVEMENTS

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- IBM Data Science Professional Certificate
- Data Analysis with Microsoft Excel
- Valedictorian - Pondicherry University
- GATE 2022, JAM 2017
- Principal's Trophy for Best Outgoing Student – 2017
- All India CBSE National Athlete - 2016, 2017

## EXTRA-CURRICULAR ACTIVITIES

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- Enthusiastic writer with expertise in technical, professional, social, and personal writings, supported by a never-ending interest in learning and upskilling
- Active Badminton player

## LEADERSHIP

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- Class Representative for the Integrated M.Sc. in Physics class of 2022, responsible for scheduling exams and acting as the intermediary between the department and the students.