RINDHUJA TREESA JOHNSON

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EDUCATION

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

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

EXPERIENCE

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

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

Mall Customer Segmentation using K-Means Clustering Investigated the customer segments based on Age, Income, and Spending to analyze the public behavior in shopping at malls, Out of the six clusters formed using K-Means, two of them were clearly separated, and they were high earning, young people with above average spending pattern and the low earning with below average spending pattern across all ages.

Image Classification for Breast Cancer Detection Implemented CNN using high-end python libraries such as TensorFlow and Keras to classify sample images into probability groups to help detect Breast Cancer. The model gave a left-skewed distribution of probabilities, i.e., it predicted most samples to be cancerous.

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

- 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

- 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

- 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.