

Rindhuja Johnson

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Summary

I am a dedicated and passionate professional with a Master's in Physics and Data Science. My mathematical background complemented by a solid foundation in data science, including machine learning, statistical analysis, and modeling gives me an advantage as an aspiring Data Analyst. Through numerous projects over the past year, I have proven my ability to conceive, develop, and implement end-to-end data solutions for impactful problem-solving. My diligence in staying on top with continuous learning and commitment will be an irreplaceable asset to your company. The unique blend of mathematical expertise, data science tools & skills, and a proactive work approach will set me apart in contributing effectively to your innovative and challenging projects.

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 a Data Analysis project with MS Excel and Python libraries

Skills

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

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 HDFS
- 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 provide assistance to students seeking clarification on course concepts.

RTTP Math Coach

University of Maryland Baltimore County • Catonsville, MD 10/2023 - Present

- Managing elementary/middle school students and help them capture basic mathematical concepts.
- Planned, designed, and executed well-structured Session Frameworks and practice problems.
- Communicating the difficulties faced by students and assisting them in overcoming them.

Orientation Advisor

University of Maryland Baltimore County • Catonsville, MD 01/2024 - 01/2024

- Guiding Freshmen in course scheduling after reviewing their prior coursework and discussing their interests.
- Engage in a two-way communication with the advisee to understand their goals and work as a team.
- Provide effective and reliable mentorship for dilemmas and direct them to the appropriate personnel for aid.

General Associate

University of Maryland Baltimore County • Catonsville, MD 07/2023 - 08/2023

- Design, collect, and analyze weekly assessment data to study the impact and effectiveness of the Summer Bridge.
- Co-facilitate weekly academic transition workshops to successfully impart valuable skills to incoming freshmen.
- Plan and implement out-of-academic engagement activities including various off-site social events..

Social Media Associate

Redwood Algorithms · Bangalore, Karnataka

09/2022 – 10/2022

- 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 by 200%.
- 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.

Projects

“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 Steam App
- 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 clustering 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

Certificates

- IBM Data Science Professional Certificate

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