

RINDHUJA TREESA JOHNSON

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EDUCATION

University of Maryland Baltimore County

Master of Professional Studies in Data Science

GPA: 4.0/4.0

Baltimore, MD

May 2024

Pondicherry University

Master of Science in Physics

GPA: 3.61/4.0 Valedictorian

Puducherry, India

May 2022

SKILLS

Languages

SQL, Python3, R, C++, HTML, DAX, LaTeX

Python Libraries

Pandas, NumPy, Matplotlib, Seaborn, TensorFlow, PyTorch, Keras, Sci-Kit Learn, PySpark

R Libraries

Tidyverse, TidyR, Ggplot2, Plotly, Sf, Dplyr, SpData

Expertise

Machine Learning, Big Data Handling, Data Analysis, Data Visualization, AI, LLM,

GitHub, Descriptive Statistics, Financial Analysis, Trend Analysis, Business Intelligence

Database Management, Deep Learning, Hypothesis Testing, Regression Modeling, Research

Platforms

MS Power BI, Tableau, MS Excel, Oracle MySQL, Apache Spark, RStudio, MS SSMS,

Apache Hadoop, AWS, Databricks, GitHub, VS Code

Soft Skills

Agile, Communication, Time & People Management, Problem-solving, Critical thinking,

Attention to detail, Adaptable & Team player

EXPERIENCE

University of Maryland Baltimore County

Graduate Assistant (Course - Platforms for Big Data Processing)

Baltimore, MD

Jan 2024 - May 2024

- Collaborated with the instructor to develop projects that enhanced students' experience with **cloud platforms and big data** processing with **Spark, Hadoop, Databricks, AWS, Mongo DB, and Cassandra DB**
- Streamlined the evaluation process of student work, increasing efficiency by 200% while adhering to grading criteria and providing detailed, constructive feedback
- Offered support to students, addressing their queries and helping them grasp concepts during office hours
- Mentioned for the attention to detail, accountability, and timely delivery of quality work in the evaluation

University of Maryland Baltimore County

RTTP Math Coach

Baltimore, MD

Oct 2023 - May 2024

- Enhanced elementary/middle school students' basic math speed by 70% through targeted practice and innovative teaching methods
- Boosted student productivity and engagement by 50% by planning, designing, and executing Session Frameworks
- Prioritized sessions to align with student feedback and improved student participation and output

Redwood Algorithms

Social Media Associate

Bangalore, India

Sept 2022 - Oct 2022

- Captured the essence of businesses of five clients to incorporate in social media and drive the target audience
- Elevated customer engagement by 200% by analyzing trends and implementing in social media posts and ads

PROJECTS

[Time-series Analysis of Exchange Rates of Foreign Currencies with US Dollar](#)

- Achieved a high-accuracy (97%) model by implementing a **time-series analysis and forecasting** using the ARIMA, SARIMA, and SARIMAX on the FRED Foreign Exchange data
- Researched micro-economic variables to be considered for the SARIMAX model, thus learning the domain deeply and understanding the relationships

- Created an interactive Dashboard with Power BI of the Exchange rates of 5 different countries and integrated Python with the FRED API auto-updating data with the weekly release to visualize the forecasts of exchange rates for the next 10 months

Customer Lifetime Value Prediction for Auto-Insurance Companies

- Attained a 91% accurate Customer Lifetime Value (CLV) prediction (Random Forest) model and segmentation to drive targeted marketing strategies
- Incorporated 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 companies
- Designed a QnA Interface using *Langchain* Google's Gemini LLM API that converted human questions into SQL queries and extracted data from the database, enabling non-technical interaction with the data

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 on the Steam App in Nov 2021 from an 8GB dataset, accessed and analyzed using HDFS and PySpark, respectively
- Modeled an algorithm to recommend 5 games for new players using the Alternating Least Squares from Spark MLlib based on gaming history

Portfolio Optimization and Dynamic Dashboard with MS Excel, SQL, and Python

- Optimized the risk-return of a 5-stock portfolio using the Data Analysis and Solver add-ins in MS Excel
- Generated a portfolio transaction dataset using Python and YahooFinance API with appropriate constraints
- Established a MySQL connection between Python (SQLConnect) and MS Excel(ODBC) to enable auto-updation of data and proper data management
- Developed a dynamic dashboard in MS Excel with LOOKUPS and PIVOT tables, giving insights into the stock allocation and risks

Nutrition Dashboard for US Food Products with Tableau, SQL, and Python

- Published a user-friendly dashboard that allows custom diet planning and nutrient calculation on Tableau
- Cleaned the messy data, connecting MySQL and Python to prevent data losses and forming a flawless data pipeline

LEADERSHIP & EXTRA-CURRICULAR

Class Representative — Pondicherry University

- Represented 25 students to communicate students' requirements and faculty expectations in department meetings
- Scheduled Exam Timetable resolving schedule conflicts among different courses and departments

Writing

- Experienced in technical, professional, social, and personal writings, supported by a never-ending interest in learning and upskilling

Active Badminton player and National Athlete — UMBC, Pondicherry University, High School

- Represented UMBC in numerous inter-university Badminton tournaments and UMBC Badminton Club member
- All India CBSE Schools Athletic Meet Participant - 2016, 2017

CERTIFICATIONS

- [IBM Data Science Professional Certificate](#)
- [Data Analysis with Microsoft Excel](#)

PUBLICATIONS

- Data Writer @Towards Data Science
- medium.com/@rindhuji

ACHIEVEMENTS

- [Phi Kappa Phi Honor Society Member](#)
- GATE (Feb 2022), JAM (Feb 2017)