RINDHUJA TREESA JOHNSON

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SKILLS

Languages	SQL, Python3, R, C++, HTML, DAX, LaTeX
Python Libraries	Pandas, NumPy, Matplotlib, Seaborn, Sci-Kit Learn, TensorFlow, Keras, PyTorch, PySpark
Expertise	Machine Learning, Data Analysis, Data Visualization, Big Data Handling, Agile
Platforms	MS Power BI, MS Excel, Plotly, Oracle MySQL, Apache Spark, RStudio, HDFS, MS SSMS, AWS, Databricks, GitHub, VS Code

EDUCATION

University of Maryland Baltimore County — Baltimore, MD
Master's in Data Science — Expected May 2024
Data Management with SQL, Data Analysis & Machine Learning with MS Excel & Python, Data Visualization with Power BI, Geospatial Data Analysis with R, Big Data with HDFS & Apache Spark, and Financial Data Science

Pondicherry University — Puducherry, India
M.Sc.(5-year Integrated) in Physics — Jul 2017 - May 2022
Mathematics, Statistics, Electronics, Python, Fortran

EXPERIENCE

University of Maryland Baltimore County — Baltimore, MD
Graduate Assistant (Course - Platforms for Big Data Processing) — Jan 2024 - Ongoing
- Evaluate and grade student works as per established grading criteria and offer constructive feedback 200% faster
- Collaborated with instructors to streamline course material preparation, saving an average of 10 hours per week

University of Maryland Baltimore County — Baltimore, MD
RTTP Math Coach — Oct 2023 - Ongoing
- Manage elementary/middle school students and increase basic Math speed by 70%
- Plan, design, and execute Session Frameworks improving productivity and student engagement by 50%

University of Maryland Baltimore County — Baltimore, MD
Orientation Advisor — Jan 2024 - Ongoing
- Guided Freshmen in course scheduling after reviewing prior coursework with an overall 4.75 rating
- Engaged in two-way communication with the student to understand goals and work as a team, resulting in a 4.73 overall team rating

Redwood Algorithms — Bangalore, India
Social Media Associate — Sept 2022 - Oct 2022
- Conducted meetings with five business clients to understand the social media objectives and target audience
- Increased customer engagement by 200% by translating client vision into engaging social media posts and ads

PROJECTS

Time-series Analysis of Exchange Rates of Foreign Currencies with US Dollar — Jan 2024 - April 2024
- Implemented a time-series analysis and forecasting model using the ARIMA, SARIMA, and SARIMAX models with the RMSE as low as 0.3% on the FRED Foreign Exchange data
- 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 — Jan 2024 - April 2024
- Deployed ML models for customer lifetime value (CLV) prediction and segmentation, driving targeted marketing strategies, with Random Forest Regressor as the best with a 91% accuracy
- 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 Google's Gemini LLM that converts human questions into SQL queries and extracts data from the database

Steam Review Analysis using Apache Spark and Hadoop in Python   Dec 2023
- 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

Analyzing and Visualizing the Motor Accidents in Maryland Counties in R   Dec 2023
- 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 advanced proficiency in Version Control using Git and GitHub, saving 25% time in file management
- Designed an interactive map using Plotly highlighting crash-prone areas along the 16 Interstates in Maryland, integrating data from OpenStreetMap

Portfolio Website Using HTML and CSS
- Developed a personal website and launched with Jekyll on GitHub that showcases career journey, improving public visibility by 300%
- Drafted the website using HTML for content writing and CSS for styling and formatting the website

[See More on GitHub]() Or [Visit the Portfolio]()

LEADERSHIP

Pondicherry University   Puducherry, India
Class Representative - Integrated M.Sc. in Physics   Jul 2017 - May 2023
- Represented 25 students to communicate students' requirements and faculty expectations in department meetings
- Scheduled Exam Timetable resolving schedule conflicts among different courses and departments

ACHIEVEMENTS

Certifications	IBM Data Science Professional Certificate, Data Analysis with Microsoft Excel
Achievements	[Phi Kappa Phi Honor Society Member](), GATE (Feb 2022), JAM (Feb 2017)
Publications	[Medium](), Author [@Towards Data Science]()

HOBBIES & ACTIVITIES

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