

Jayashree Ramesh Reddy

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EDUCATION

Master of Science in Data Science

University of Memphis • Memphis, TN • 2025 • 3.46

- Currently a Social Media Intern, leveraging Excel and Power BI to analyze audience data and grow social media pages. Also a Yoga Instructor at my university, promoting health and wellness.

Bachelor of Science in Information Science and Engineering

Don Bosco Institute Of Technology College • Bengaluru, India • 2023 • 3.4

EXPERIENCE

Data Science Intern

Artoo IT Solutions Pvt Ltd

August 2023 - November 2023, India

- Optimized ML models for customer segmentation and credit risk assessment, boosting loan approval accuracy by 15%.
- Built a credit risk prediction system using Random Forest and XGBoost, achieving 89% classification accuracy.
- Automated data preprocessing pipelines in Python, cutting processing time by 30% and enhancing model efficiency.
- Developed customer segmentation using K-Means/DBSCAN, improving targeted marketing conversions by 15%.
- Created dashboards and automated ETL workflows with Power BI and Airflow, increasing reporting efficiency by 20%.

Data and Automation Intern

JOHNSON CONTROLS

January 2023 - July 2023, India

- Built Power BI dashboards that improved business insights and increased system uptime by 30% across manufacturing sites.
- Developed an Appreciation App in Power Apps to digitize employee recognition, reducing manual efforts by 90%.
- Created a Course App for internal training using Power Apps and SharePoint, benefiting over 200 employees.
- Streamlined IT workflows with Power Automate, reducing repetitive manual tasks by 40%.
- Optimized SharePoint systems for better usability and security, improving accessibility by 50%.

SKILLS

- **Programming Languages:** Python (Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch), SQL, R, CSS, HTML
- **Data Analysis & Manipulation:** Data Cleaning, Data Wrangling, Feature Engineering, Data Modeling
- **Data Visualization:** Power BI, Tableau, Matplotlib, Seaborn, Excel (Pivot Tables, VLOOKUP)
- **Machine Learning & AI:** Supervised & Unsupervised Learning, Neural Networks (CNNs, RNNs, Transformers)
- **Big Data & Cloud Technologies:** Apache Spark, Snowflake, AWS (S3, Lambda, SageMaker, Redshift)
- **Database Management:** MySQL, PostgreSQL
- **Soft Skills:** Critical Thinking, Communication, Stakeholder Engagement, Time Management, System Design Thinking

PROJECT

Android Malware Prediction | Machine Learning Project

University of Memphis • github.com/jrmshrdd/Malware-detection-In-apps • February 2025 - April 2025

- Created a classification model to detect Android malware using Random Forest, achieving over 92% accuracy on a large-scale dataset.
- Extracted and selected relevant features such as permissions, API usage, and manifest data from more than 15,000 application samples.
- Utilized a dataset containing thousands of malware and benign apps for training and validation with rigorous cross-validation techniques.
- Employed data visualization tools to explore feature significance and improve the interpretability of detection results.
- Implemented a preprocessing workflow including scaling and encoding to enhance model performance on new app data.

Mental Health Burnout Risk Prediction Using Workplace Data

University of Memphis • github.com/jrmshrdd/Mental-Health-Burnout-Risk-Prediction-Using-Workplace-Data/tree/main

- August 2024 - December 2024
- Achieved 86% accuracy predicting mental health burnout risk using a Random Forest model trained on 1,567 employee survey records.
- Improved data quality by reducing missing values by 90% and encoding 5 categorical variables, enhancing model robustness.
- Applied SHapley Additive exPlanations (SHAP) to interpret over 95% of model predictions, enabling actionable insights for stakeholders.
- Developed an interactive Streamlit web app with sub-2 second response time, supporting real-time predictions and visualization.
- Conducted exploratory data analysis on 20+ features, identifying top 5 burnout drivers that informed feature selection and model tuning.