HARI PRASANNAA THANGAVEL RAVI

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EDUCATION

The George Washington University, Washington, DC | **May 2026**

Master of Science in Data Science

Global Leaders Award

- Relevant Coursework: Data Mining, Data Warehousing.

Sri Venkateswara College of Engineering, Chennai, India | **May 2023**

Bachelor of Engineering in Electronics and Communication Engineering | **CGPA: 3.81/4.0**

- Relevant Coursework: Statistics, Object Oriented Programming, Python, Computer Networks, Data Structures.

Robotics and Artificial Intelligence Club.

- Led Python workshops for over 50 incoming freshmen, fostering teamwork and collaborative learning among students without prior programming experience.

TECHNICAL SKILLS

- **Programming and Scripting**: Python, R, JavaScript, C, C++, SQL, Java.
- **Tools and Platforms:** VSCode, IBM Cognos, Git, Postman, Neo4j, MongoDB, RStudio, JIRA, Jupyter Notebook.
- **Frontend Development**: Vue.js, HTML, CSS, React.js.
- **Data Analysis and Visualization**: Pandas, NumPy, Matplotlib, Power BI, Tableau, Predictive Modeling, Statistical Analysis, Data Management, Exploratory Data Analysis (EDA), Statistical Methods.
- **Certification**: Data Analyst Associate, DataCamp.
- **Publication:** Smart Health Monitoring System for Pregnant Women.

WORK EXPERIENCE

Facilio Technology Solutions, Chennai, India | **August 2022 - July 2024**

Technical Staff

- Secured a full-time position in June 2023, advancing from intern role three months ahead of typical promotion timeline due to exceptional contributions and consistent performance in project delivery.
- Developed and implemented an interactive dashboard tool using JavaScript and Java, allowing for customizable widgets and real-time monitoring on TV screens, leading to an 8% increase in customer base over 2 years.
- Automated KPI and report generation by developing a core framework leveraging optimized SQL indexing, time-series data aggregation and dynamic ETL Processes, reducing manual effort by 30%.
- Built a custom UI component library with React and JSX, utilizing Context API and styled-components. Optimized performance and reusability through rendering optimizations, including memoization and lazy loading.
- Collaborated with cross-functional teams to train 30+ international clients, resulting in increased daily active user engagement and improved product adoption rates.

PROJECTS

Global Rice Production Analysis | **September 2024 - October 2024**

- Spearheaded the development of a predictive model with 20,000 observations, employing statistical testing, feature selection, hyperparameter tuning, and cross-validation to boost forecasting accuracy.
- Performed advanced exploratory data analysis in R, applying techniques such as data normalization, outlier detection, and multicollinearity analysis, followed by linear regression to uncover key trends.
- Designed and developed 5 interactive dashboards in Power BI, utilizing DAX functions and custom visualizations to transform complex data into actionable insights, ensuring interpretability for analysis.

Heart Disease Predictor, IBM | **July 2022 - November 2022**

- Led a team of 4 members to design an IBM-supported heart disease prediction system using IBM Cognos, creating an interactive dashboard to visualize patient data and identify high-risk individuals.
- Performed data preprocessing in Python, including data cleaning, transformation, and exploratory data analysis on 10,000+ patient records, ensuring high-quality inputs for accurate model training.
- Optimized machine learning models, including Random Forest and Decision Tree classifiers, improving prediction accuracy to 95.18%, and coordinated team efforts to meet project milestones.

PROFESSIONAL ORGANIZATIONS

Youth Red Cross, Chennai, India | **June 2019 - May 2023**

Committee Member

- Spearheaded various health-related initiatives, including blood donation drives engaging over 500 participants, raising awareness of public health issues.