

# HARI PRASANNA 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, Cloud Computing, Machine Learning.

**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 Languages:** C, C++, Python, SQL, Java, R.
- Web Technologies:** HTML, CSS, JavaScript, React, Vue.
- Databases:** MySQL, PostgreSQL, MongoDB, Neo4j.
- Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, Seaborn, Tableau, Power BI, IBM Cognos, Statistical Analysis, Exploratory Data Analysis (EDA).
- Machine Learning:** Scikit-learn, Regression, Classification, Clustering, TensorFlow, Hyperparameter Tuning.
- Tools:** Git, JIRA, Postman, Jupyter Notebook, VSCode, RStudio, Microsoft Excel.
- Certification:** Data Analyst Associate, DataCamp.
- Publication:** Smart Health Monitoring System for Pregnant Women.

## WORK EXPERIENCE

**Facilio Technology Solutions**, Chennai, India

Aug 2022 - Jul 2024

### Member Technical Staff

- Designed and implemented an interactive dashboard tool with JavaScript and Java, enabling customizable widgets and real-time monitoring on TV screens, driving an 8% customer base growth over two years.
- Automated KPI and report generation by developing a core framework leveraging 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.
- 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.

## PROJECTS

### Predicting Asthma Prevalence

Nov 2024 - Dec 2024

- Engineered a predictive model using Ridge Regression, SVR, and Gaussian Process Regression to estimate asthma prevalence from health and spatial datasets (250k+ rows), integrating feature engineering techniques.
- Delivered an 86%  $R^2$  accuracy, facilitating data-driven public health strategies and enhancing scalability in large-scale health data analysis pipelines.

### Global Rice Production Analysis

Sep 2024 - Oct 2024

- Developed predictive models with 20,000+ observations deploying statistical testing, feature selection, hyperparameter tuning, and cross-validation, enhancing forecasting accuracy through rigorous analysis in R.
- Designed 5 interactive dashboards in Power BI, leveraging DAX functions and custom visualizations to transform complex data into actionable insights, ensuring clarity and interpretability.

### Heart Disease Predictor, IBM

Jul 2022 - Nov 2022

- Led a team of 4 to develop a heart disease prediction system using IBM Cognos, creating an interactive dashboard for visualizing patient data and identifying high-risk individuals.
- Preprocessed data and optimized machine learning models on 10,000+ patient records, achieving 95.18% accuracy with Random Forest and Decision Tree classifiers.

## EXTRACURRICULAR ACTIVITIES

**Robotics & Artificial Intelligence Club**, SVCE, Senior Mentor

Jun 2021 - May 2023

**Youth Red Cross**, Chennai, India

Jun 2019 - May 2023

**Forum of Data Science Engineers**, SVCE, Committee Member

Jun 2020 - May 2022