

# Vishnu Vardhan Rao Vedurur

Memphis | vishnu.mathematica@yahoo.com | 901 468 4971

linkedIn | github

## Professional Summary

- Graduate student in Data Science with hands-on experience in data analysis, machine learning, and visualization using Python, R, and Power BI, seeking a Data Analyst role to apply analytical skills and drive insights.

## TECHNICAL SKILLS

Python | R | MySQL | MongoDB | Tableau | Power BI | PyCharm | Jupyter | RStudio | Visual Studio Code | NumPy | pandas | matplotlib | seaborn | Microsoft Office | Google Cloud Platform | Cloud SQL

## EXPERIENCE

**Research Assistant** - University of Memphis, Memphis, TN

March 2024–May 2025

- Resolved 300+ technical issues for faculty, staff, and students across software, hardware, and network domains.
- Achieved a 90% first-call resolution rate while managing service tickets and supporting IT inventory and system upgrades.

**Senior Data Analyst** - Hindu Junior College for Girls, India

August 2017–July 2023

- Led data analytics initiatives at Hindu Junior College, overseeing data-driven projects to enhance institutional effectiveness, student success, and operational efficiency.
- Introduced and implemented advanced analytics tools, methodologies, and training programs for the team.
- Developed data models, dashboards (**Power BI, Tableau**), and performance metrics, improving academic outcomes by **15%** and streamlining faculty evaluations, reducing review time by **30%**.
- Led data migration from legacy systems to **SQL** databases, improving data retrieval accuracy by **25%** and system efficiency.
- Automated attendance tracking systems, increasing attendance management accuracy by **20%** and reducing data processing time by **15%**.
- Conducted predictive analytics using Python and machine learning, achieving **95%** accuracy in enrollment forecasts and optimizing resource allocation by **25%**.
- Performed **sentiment analysis** on student feedback using **NLP techniques**, improving student satisfaction scores by **10%** and proactively addressing critical concerns.
- Built Tableau dashboards, cutting faculty review time and boosting reporting efficiency by 40%.
- Automated accreditation reporting, reducing manual work by 40% and ensuring compliance.
- Trained 50+ staff on data tools, increasing analytics adoption and usage by 50%.
- Enforced GDPR-compliant governance, maintaining 99% accuracy and securing institutional data.
- Drove strategic data projects, improving student retention by 12% YoY.

## PROJECTS

### Search Engine Interface Using Web Scraping

- Built a Python-Flask web app to scrape/search websites and rank results using cosine similarity; reduced search time by 35%.
- Cleaned text data with regex, stop word removal, and stemming, increasing result relevance by 25%.

### Predictive Insights into Hotel Reservations

- Analyzed booking data to uncover trends in cancellations and peak periods, improving forecast accuracy by 20%.
- Provided actionable insights that boosted room utilization and guest satisfaction by 15%.

### Real Estate Price Prediction

- Built ML models (Linear Regression, Random Forest, XGBoost) to predict house prices; achieved 92%  $R^2$  score on test data.
- Engineered features and removed outliers to reduce RMSE by 18% and improve model stability.

## EDUCATION

**UNIVERSITY OF MEMPHIS**, MS in Data Science

**GPA:** 3.9/4.0

Aug 2023 – May 2025

- Coursework:** Fundamentals of Data Science, Machine Learning, Adv. Statistics I & II, Database Systems, Bio Statistical Methods, Artificial Intelligence, Multivar Statistics, Web Scraping.

**PONDICHERRY UNIVERSITY**, MS in Mathematics

**GPA:** 3.1/4.0

Aug 2012 – May 2014

- Coursework:** Advanced Algebra, Real Analysis, Linear Algebra, Complex Analysis, Differential Geometry, Functional Analysis, Cryptography, Graph Theory with Algorithms, Partial Differential Equations.