

# RITWIK SHARMA

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## EDUCATION

**George Mason University, Fairfax, Virginia, USA**

**08/22 - 05/24**

*Master Of Science (Computer Science)*

*GPA: 3.52/4.0*

**Guru Gobind Singh Indraprastha University, Delhi, India**

**08/17 - 07/21**

*Bachelor Of Technology (Computer Science and Engineering)*

*GPA: 9.01/10.0*

## TECHNICAL SKILLS

**Programming Languages:** Python, R, MATLAB, C, C++, Java, HTML5, CSS3, JavaScript, SQL

**Databases:** MySQL, PostgreSQL, Oracle, and MongoDB

**Tools and Technology:** Apache Spark, Apache Hadoop, AWS, GCP, Azure, Databricks, Snowflake, Jupyter, TensorFlow, Keras, PyTorch, Scikit-Learn, NLTK, Tableau, Power BI, Streamlit, Flask, Git, Docker, Kubernetes, Jenkins, Jira

**Languages:** English, Hindi

## PROFESSIONAL EXPERIENCE

### NAVIGA GLOBAL

**05/23 – 08/23**

*Data Science Intern*

*New York, United States*

- Enhanced the time series production model accuracy by 17% through rigorous data analysis and experimentation using PySpark, SOL, and Databricks.
- Authored 6 project reports on model enhancement, performance analysis, bias mitigation, and feature exploration using Microsoft Word and LaTeX.
- Amplified business users' engagement by 40% by creating client-centric interactive dashboards using Tableau, Power BI, and Microsoft Excel.
- Explored 15 innovative time-series performance metrics through dedicated research and development.

### RSG MEDIA SYSTEMS

**08/21 – 07/22**

*Data Scientist*

*Gurgaon, Haryana, India*

- Accomplished a time series forecasting model with accuracy surpassing 90% by conducting thorough data analysis utilizing Python and SQL
- Boosted sales by 20% by generating insightful reports and providing valuable data-driven insights to the clients using Streamlit dashboards.
- Achieved 50% effort reduction by independently developing a flask application for production model prediction analysis.
- Spearheaded two key research initiatives to advance product innovation and capabilities.

## ACADEMIC PROJECTS

### Global Terrorism Predictive Analytics [🔗](#)

**(Big Data Analytics)**

- Capitalized on PySpark's capabilities to conduct expansive analysis of terrorism incidents, executing geospatial, network, and survival analyses, anomaly detection, predictive modeling, topic modeling, and political stability analysis for comprehensive insights.

### Global Economic Prospects and Risk Factors [🔗](#)

**(Data Science)**

- Compared the performance of three models, including ARIMA, LSTM, and FB Prophet, on predicting the economic stability, life expectancy, carbon dioxide damage, and population of the most critical countries.

### News Headlines Sarcasm Detection [🔗](#)

**(Natural Language Processing)**

- Benchmarked machine learning and deep learning models, including Logistic Regression, K-Nearest Neighbors, Support Vector Machines, Decision Trees, Random Forests, AdaBoost, Gradient Boosting, XGBoost, Recurrent Neural Network (RNN), Bidirectional Long Short-Term Memory Network (LSTM), and BERT, for sarcasm detection in news headlines.

## PUBLICATION

### A Visionary Approach to Smart Voting System [🔗](#)

**07/21**

Journal: SSRN-Elsevier

Conference: International Conference on Data Analytics & Management (ICDAM)

- Proposed a smart voting system for India that utilizes Hashgraph technology instead of Blockchain, providing greater speed and accessibility to encourage wider participation.