RITWIK SHARMA

+1 (202) 890-7475 ritwiksharma107@gmail.com rsharm22@gmu.edu ritwiksharma107 portfolio

EDUCATION

George Mason University, Fairfax, Virginia, USA **08/22 - 05/24**
Master Of Science (Computer Science) *GPA: 3.6/4.0*

Guru Gobind Singh Indraprastha University, Delhi, India **08/17 - 07/21**
Bachelor Of Technology (Computer Science and Engineering) *GPA: 3.8/4.0*

TECHNICAL SKILLS

Programming Languages: Python, R, MATLAB, C, C++, C#, Java, HTML5, CSS3, JavaScript, and SQL
Databases: MySQL, PostgreSQL, Oracle, and MongoDB
Big Data and Data Processing: Apache Spark, Apache Hadoop, Databricks, and Snowflake
Cloud Platforms: Amazon Web Services, Google Cloud Platform, and Microsoft Azure
Machine Learning Frameworks: TensorFlow, Keras, PyTorch, Scikit-Learn, OpenCV, NLTK, spaCy, and Gensim
Business Intelligence and Data Visualization: Tableau and Power BI
Web Development: Streamlit, Flask, Django, React, and Node.js
DevOps and Version Control: Docker, Kubernetes, Jenkins, Git, and Jira

PROFESSIONAL EXPERIENCE

NAVIGA GLOBAL **05/23 – 08/23**
Data Scientist *New York, United States*

- Enhanced the accuracy of the time series production model to 87% through rigorous data analysis and experimentation, leveraging PySpark, SQL, 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 clients using Streamlit dashboards
- Engineered and deployed a Flask application for production model prediction analysis, cutting effort by 50%
- 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 over 1 million 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 Random Forests, AdaBoost, Gradient Boosting, XGBoost, RNN, LSTM, and BERT for sarcasm detection in 50,000 news headlines, to optimize model performance

PUBLICATION

A Visionary Approach to Smart Voting System **07/21**

Journal: SSRN-Elsevier
Conference: International Conference on Data Analytics and Management (ICDAM)

- Proposed smart voting system for India leveraging Hashgraph instead of Blockchain to achieve a 1,000-fold enhancement in transaction speed and accessibility to encourage wider participation