RITWIK SHARMA

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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, Microsoft SQL Server, 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
Data Science Frameworks: LangChain, Hugging Face, TensorFlow, Keras, PyTorch, Gensim and Scikit-Learn
Machine Learning Models: Random Forests, AdaBoost, Gradient Boosting, XGBoost, CNN, RNN, LSTM, and BERT
Large Language Models (LLMs): OpenAI, Google Gemini, Meta Llama
Business Intelligence and Data Visualization: Tableau, Power BI and SAS
Web Development: .NET, Flask, Django, Node.js, React, Angular and Streamlit
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 performance of the time series production model, reducing mean absolute percentage error to 10% through rigorous data analysis, leveraging PySpark, SQL, and Databricks MLflow
- Researched and developed 15 innovative time-series performance metrics, authored reports on model enhancement, and addressed bias mitigation using Microsoft Word and LaTeX
- Amplified business users' engagement by 40% by creating client-centric interactive dashboards using Tableau, Power BI, and Microsoft Excel

RSG Media Systems   **08/21 − 07/22**
Data Scientist   *Gurgaon, Haryana, India*

- Accomplished a time series forecasting model achieving MAPE of 7% through thorough data analysis and optimization using Python and SQL
- 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

Vrinda Nano Technologies   **08/19 - 07/21**
Data Analyst   *Gurgaon, Haryana, India*

- Examined carbon dioxide damage, economic stability, life expectancy, and population data for 10 countries to identify key risk factors and formulate predictive insights
- Assessed the performance of ARIMA, LSTM, and FBProphet models, achieving 92% accuracy rate in predicting risk factors for the world's most critical countries
- Crafted 15 interactive dashboards using Tableau and Power BI, delivering critical insights and driving data-driven decisions in energy and safety initiatives

ACADEMIC PROJECTS

HealthTrackGPT 🔗   **(Generative AI)**

- Pioneered an AI-driven health app using prompt engineering with OpenAI, Google Gemini, and Meta Llama models for personalized health analyses, meal tracking, and interactive Q&A features to optimize health and nutrition management

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

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