

## RITWIK SHARMA

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**Portfolio :** ritwiksharma107.github.io/portfolio/  
**Address :** 4307C Ramona Drive, 4307C, Fairfax, VA 22030

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- ❖ Implemented **End-to-End projects** in computer science technologies such as **Data Science, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Web Development, Android Development, and Ethical Hacking.**
  - ❖ Comprehensive understanding of **Frontend technologies- ReactJS, Streamlit and Backend Technologies- Flask, Node.js.**
  - ❖ Extensive knowledge of working with **NoSQL database like MongoDB and SQL databases like MySQL and PostgreSQL.**
  - ❖ Well versed with big data processing platform - **Databricks**
  - ❖ Basic understanding of **Big Data frameworks like Apache Hadoop and Apache Spark (PySpark).**
  - ❖ Familiar with **Cloud Platforms like Heroku (PaaS) and AWS (IaaS) - AWS S3, AWS EC2, AWS Sagemaker.**
  - ✓ **PROGRAMMING LANGUAGES: C, C++, Java, Python, HTML5, CSS3, JavaScript**
  - ✓ **LANGUAGES : English (IELTS=7.5), Hindi (Mother Tongue)**
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## EDUCATION QUALIFICATIONS

- Master of Science (Computer Science)** Aug 2022 - Present  
George Mason University 📍  
Location: Fairfax, Virginia, United States
- Bachelor of Technology (Computer Science and Engineering)** Aug 2017 - Aug 2021  
Maharaja Agrasen Institute Of Technology, Guru Gobind Singh Indraprastha University 📍  
Location: Delhi, India  
GPA: 9.01
- Higher Secondary School Certificate** March 2017  
Salwan Public School, Central Board of Secondary Education 📍  
Location: Delhi, India  
12<sup>th</sup> Grade: 92.2 %
- Secondary School Certificate** March 2015  
Salwan Public School, Central Board of Secondary Education 📍  
Location: Delhi, India  
10<sup>th</sup> Grade: 9.8(CGPA)

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## WORK EXPERIENCE

- Company :** RSG Media Systems Pvt. Ltd 📍 Aug 2021 – July 2022  
**Location :** Gurgaon, Haryana. India  
**Designation :** Data Scientist  
**Role :**
- Single-handedly developed an app for production model prediction analysis.
  - Prepared insightful reports and provided valuable data insights.
  - Developed the required prediction models after an in-depth analysis of data.
  - Took initiative and independently handled all R&D tasks.

<b>Company</b>	:	<u>The Sparks Foundation (GRIP)</u> 📌	July 2021 – Aug 2021
<b>Location</b>	:	Singapore	
<b>Designation</b>	:	<u>Data Science and Business Analytics Intern</u> 📌	
<b>Project</b>	:	<u><b>Exploratory Data Analysis - Retail</b></u> 📌	
		<ul style="list-style-type: none"> <li>Performed Exploratory Data Analysis on Retail Data and established the weak areas to work on to maximize profit.</li> <li>Tools &amp; Technology: Google Colab ,Streamlit, Visual Studio Code</li> <li>Programming Language: Python</li> </ul>	
<b>Company</b>	:	<u>Webcommerce India Private Limited</u> 📌	March 2020 – April 2020
<b>Location</b>	:	Lajpat Nagar, New Delhi, India	
<b>Designation</b>	:	<u>Full Stack Web Developer Intern</u> 📌	
<b>Project</b>	:	<u><b>Image Face Detection (Full Stack Web Development)</b></u> 📌	
		<ul style="list-style-type: none"> <li>Developed a react app to authenticate employees by detecting their faces</li> <li>Tools &amp; Technology: Visual Studio Code, Heroku</li> <li>Programming Language: Html5, CSS3, Javascript</li> <li>Database: PostgreSQL</li> </ul>	
<b>Company</b>	:	<u>Path Infotech Limited</u> 📌	June 2019 – July 2019
<b>Location</b>	:	Noida, Uttar Pradesh, India	
<b>Designation</b>	:	<u>Java Developer Intern</u> 📌	
<b>Project</b>	:	<u><b>Member Portal Registration App</b></u> 📌	
		<ul style="list-style-type: none"> <li>Created a member registration portal for Path InfoTech's employees</li> <li>Tools &amp; Technology: NetBeans</li> <li>Programming Language: Java</li> <li>Database: MySQL</li> </ul>	

## ACADEMIC PROJECTS

<b>Title</b>	:	<u><b>Global Economic Prospects and Risk Factors (Data Science And Machine Learning)</b></u> 📌
<b>Description</b>	:	<p>Comparison of the performance of three models: ARIMA Model (Statistical Model), LSTM Model (Machine Learning Model), and FB Prophet Model (Built by Facebook) on predicting the economic stability, life expectancy, carbon dioxide damage, and population of the most critical countries of the world.</p> <ul style="list-style-type: none"> <li>Tools &amp; Technology: Google Colab ,Streamlit, Visual Studio Code</li> <li>Programming Language: Python</li> </ul>
<b>Title</b>	:	<u><b>News Headlines Sarcasm Detection (Natural Language Processing)</b></u> 📌
<b>Description</b>	:	<p>Comparison of all machine learning models with simple RNN, Bidirectional LSTM, and BERT for detecting sarcasm in news headlines</p> <ul style="list-style-type: none"> <li>Tools &amp; Technology: Google Colab ,Streamlit, Visual Studio Code</li> <li>Programming Language: Python</li> </ul>
<b>Title</b>	:	<u><b>Hand Emoji Predictor (Computer Vision)</b></u> 📌
<b>Description</b>	:	<p>Prediction of emojis from hand gestures using webcam in real-time</p> <ul style="list-style-type: none"> <li>Tools &amp; Technology: Jupyter Notebook, Streamlit, Visual Studio Code</li> <li>Programming Language: Python</li> </ul>
<b>Title</b>	:	<u><b>Track-Me App (Android Development)</b></u> 📌
<b>Description</b>	:	<p>Android application to track location on the Google map, showing address, postal code, district, city, state, country, latitude, and longitude.</p> <ul style="list-style-type: none"> <li>Tools &amp; Technology: Android Studio</li> <li>Programming Language: Java</li> </ul>

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## PUBLICATIONS

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**Title :** [A Visionary Approach to Smart Voting System \(Research Paper\)](#) 20th July 2021  
**Description :** Proposed a smart voting system in India that uses Hashgraph instead of Blockchain to provide greater reach and speed to encourage more participation.  
**Journal :** SSRN-Elsevier  
**Conference :** [ICDAM \(International Conference on Data Analytics and Management\)-2021](#)

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## EXTRA CURRICULARS & ACHIEVEMENTS

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- [Member of IOSD \(International Organization of Software Developers\) MAIT](#)
- [Participated in Smart India Hackathon \(Internal\)](#)
- [My research paper, "A Visionary Approach To Smart Voting System," is listed on SSRN's Top Ten download list for PSN: Ballot Structure, Voting Technology & Election Law \(Topic\).](#)
- [My project, "Global Economic Prospects and Risk Factors," was put on a weekly roundup \(19-25 July 2021\) on the official Streamlit website.](#)

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## COMMUNITY SERVICE

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**Organization :** Rotary International 23rd Jan 2019  
**Description :** [Voluntarily donated a unit of blood to Rotary Blood Bank](#)

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## CERTIFIED TECHNICAL SKILLS

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- ✓ [DeepLearning.AI TensorFlow Developer](#)
- ✓ [Applied Data Science with Python](#)
- ✓ [Applied Machine Learning in Python](#)
- ✓ [Applied Text Mining in Python](#)
- ✓ [Convolutional Neural Networks in TensorFlow](#)
- ✓ [Natural Language Processing in TensorFlow](#)
- ✓ [Full Stack Web Development](#)
- ✓ [Android Development](#)

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## SOFT SKILLS

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- Business acumen
- Critical thinking
- Easily Adaptable
- Effective communication
- Intellectual Curiosity
- Leadership
- Problem Solving