

## Ritvik Gupta

Boston, MA | 617-938-7292 | [LinkedIn](#) | [Gritvik8@gmail.com](mailto:Gritvik8@gmail.com) | [GitHub - Portfolio](#)

Accomplished Data Scientist/Analyst with over 3 years of expertise in insightful data driven solutions. Currently spearheading the data analyst/machine learning team in ENGAGEathon, excelling in task delegation, extracting pivotal data from web applications and conducting thorough analysis. Proven track record in completing high-impact projects and publishing influential research papers.

### Education

#### Boston University

Masters in Applied Data Analytics

Boston, MA, USA

Expected January 2025

#### SRM Institute of Science and Technology

Bachelor of Technology (B.Tech.) in Computer Science and Engineering

Chennai, India

2019 – 2023

### Work Experience

#### ENGAGEathon

Intern

May 2024 - Present

Remote, USA

- Engineered automated scripts for complex data extraction from Django admin, structured the data into normalized tables, and performed in-depth analysis using advanced Python techniques to derive actionable business insights.
- Integrated data from 9 sources within the Django admin board, ensuring seamless and accurate data consolidation.

#### Boston University

Graduate Teaching Assistant (Data Science with Python)

Jan 2024 – May 2024

Boston, USA

- Dedicated Teaching Assistant for Data Science with Python, empowering a class of 50 students. Specialized in one-on-one and group teaching sessions to clarify doubts and enhance understanding of Python programming, data analysis, and visualization techniques.
- Played a pivotal role in assisting students to overcome challenges and achieve academic success, contributing significantly to the enhancement of their practical skills and knowledge in data science.

#### Enhanced Communications & Technologies PVT. LTD.

Python Developer Intern

Mar 2021 – May 2021

New Delhi, India

- Designed and implemented a data warehouse solution and developed an AI-powered chatbot for improving customer service efficiency. Showcased proactive learning and adaptability by leading technology-driven projects.
- Conducted in-depth competitive analysis and market research, applying data analytics to drive strategic planning and decision-making.

### Technical Projects

#### Efficient Article Recommendation with Spark and FAISS

- Developed a hybrid recommendation system combining ALS, FAISS, and KMeans algorithms to provide personalized article suggestions, significantly enhancing user engagement and content discovery.
- Engineered a scalable data processing pipeline using PySpark to handle large datasets efficiently, optimizing recommendation accuracy and system performance.

#### WhatsApp Automation

- Developed a complex SQL and Python-based automation framework for targeted messaging, focusing on the utilization of advanced data analysis and customer segmentation techniques for strategic insights extraction.
- This streamlined messaging workflows with an automated scheduling system, employing statistical analysis to tailor and optimize communication strategies, significantly boosting operational efficiency and engagement metrics.

### Publications

#### Face Mask Detection using Deep Learning and CNN architecture (IJSER)

- <https://www.ijser.in/archives/v10i12/SE221206135738.pdf>  
Gupta, Ritvik & Arora, Chinmay, 2022, Face Mask Detection using Deep Learning and CNN architecture, IJSER, Volume 10 Issue 12. A deep learning approach to public health safety, using CNN for face mask detection.

#### Robust University Payment Infrastructure (IJSER)

- <https://www.ijser.in/archives/v11i8/SE23822002659.pdf>  
Gupta, Ritvik & Arora, Chinmay, 2023, Payment System for University, IJSER, Volume 11 Issue 8. Developed a secure payment system for universities, leveraging advanced data management technologies.

### Skills

- Programming Languages:** Proficient in Python, R, SQL, C++, PySpark showcasing strong technical foundation.
- Technological Tools:** Advanced proficiency in Snowflake, Apache Kafka, Apache Spark, Tableau, MySQL, Git, Power BI, AWS (S3 & EMR), highlighting strong capabilities in data management, analysis, and visualization.