

Ritvik Gupta

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

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

Education

Boston University | Boston, MA, USA

Masters in Applied Data Analytics

Expected January 2025

SRM Institute of Science and Technology | Chennai, India

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

2019 – 2023

Work Experience

ENGAGEathon

Intern / Remote, USA

May 2024 - Present

- 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) / Boston, MA

Jan 2024 – May 2024

- 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 / New Delhi

Mar 2021 – May 2021

- 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.