



RAHUL KUMAR SINGH

GitHub: [Pirate-Emperor](#)
Codechef (5★): [rumbling](#)

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EXPERIENCE

Personify (with Microsoft)

Data Science Intern

Remote

AUG 2022 – NOV 2022

- Developed a fully generative text-to-audio model using GPT-style architecture & EnCodec integration.
- Implemented advanced search validation processes to enhance relevance & ranking of search results.
- Utilized advanced search parameters and Boolean operators to refine search accuracy.
- Achieved high-quality audio outputs & enhanced search engine utility via concept-based searching.

PROJECTS

Big Data Pipeline (MySQL, Hadoop, Airflow) [\[Github\]](#)

JUL 2024 – AUG 2024

- Configured a data pipeline integrating MySQL, Hadoop, and Trino for cross-platform queries.
- Deployed and orchestrated Apache Airflow for scheduling and managing ETL/ELT workflows.
- Optimized analytics framework with DBT, streamlining data transformations and analysis processes.
- Utilized Docker and Docker Compose for environment setup, ensuring consistent development and testing.

Lunar Hazard Mapping (Python, C#) [\[Github\]](#)

NOV 2023 – FEB 2024

- Utilizes Python, GIS, and ML to create a unified lunar hazard map from multiple data models.
- Combines outputs from slope, shadow, and crater models to produce a hazard map for lunar exploration.
- Validated by a panel of 5 ISRO expert judges during Smart India Hackathon 2023.

Librarium (Java) [\[Github\]](#)

DEC 2022 – DEC 2022

- Developed Java-based RESTful APIs using Spring Boot, enhancing backend functionality and performance.
- Utilized Maven for dependency management and project builds, ensuring smoother deployment.
- Implemented detailed testing scripts with JUnit 5 and MockMvc to ensure code reliability.
- Applied version control with Git for managing code changes, collaboration, and project tracking.

SKILLS

Java, Spring Boot, MySQL, Hadoop, Trino, Apache Airflow, ETL/ELT, DBT, Docker, Docker Compose, Maven, Git, Python, C#, GIS, Machine Learning, Spark, Scala/PySpark, Cloud Platforms, Data-lake

EDUCATION

Indian Institute of Information Technology, Surat

B. Tech. in Computer Science Engineering

CGPA – 9.63

AUG 2021 – JUN 2025

- Coursework: Advanced Database Management, Cloud Computing & Big Data Infrastructure, High Performance Computing, Software Engineering, Machine Learning.
- Achievements: 1st Place in GDSC Summer Coding Challenge
- Projects: CineSprite, Stock Price Prediction, Peak Load Electricity Management.

AWARDS & CERTIFICATIONS

- SIH 2023 Grand Finalist: Led 6-member team to Grand Finale with Lunar Hazard Mapping.
- Codechef Rating 2026 (5★): Country Rank 749, Global Rank 1272.
- Codeforces Rating 1912: Candidate Master at Codeforces
- 1st Place in GDSC Summer Coding Challenge
- Google Cloud Certifications: Machine Learning Engineer, Generative AI, Google Cloud Computing