

RITIK RAUNIYAR

ritikrauniyar@gmail.com — +91-7759894307 — linkedin.com/in/ritikrauniyar/ — github.com/ritikrauniyar93

EXPERIENCE

IBM - Data Analytics Intern

June – Aug 2023

- Worked with **large datasets**, performing **data cleaning, preprocessing, and visualization** using tools like Pandas and NumPy.
- Developed and implemented **machine learning models** for predictive analytics, improving data-driven decision-making.
- Conducted **Exploratory Data Analysis (EDA)** to identify key patterns, trends, and anomalies in structured and unstructured datasets.
- Gained hands-on experience in **data storytelling** and report generation for business insights.

IIoT and Robotics - Hands-on Training

- Acquired knowledge in **Industrial IoT concepts** and implemented **real-time sensor-based automation** for predictive maintenance.
- Developed small-scale **IoT-based automation systems** to enhance efficiency in industrial processes.
- Worked on **cloud-based monitoring systems** to track real-time sensor data for anomaly detection.

PROJECTS

Ride-Sharing Analytics Platform

- Developed a **data-driven analytics platform** for optimizing ride-sharing services, predicting demand, and reducing idle vehicle time.
- Implemented **real-time data processing** techniques to analyze historical trip records and forecast peak demand periods.
- Used Python, Pandas, Matplotlib, and machine learning models to generate insights and improve operational efficiency.

Brain MRI Tumor Detection

- Designed a **deep learning-based solution** for detecting brain tumors from MRI scans.
- Utilized a **Convolutional Neural Network (CNN)** model built with TensorFlow and Keras, achieving high classification accuracy.
- Integrated **Grad-CAM visualization** techniques for model interpretability and enhanced diagnosis reliability.

Real-Time Chat Application

- Developed a **feature-rich chat application** with **real-time messaging, media sharing, and user authentication**.
- Implemented **Firestore backend** for seamless user data synchronization and authentication.
- Designed an intuitive UI using Android Studio to provide a smooth user experience.

EDUCATION

Bachelor of Technology (B.Tech) in Computer Science

Kalinga University, Raipur

2021 – 2025

CERTIFICATIONS

- **Real-Time Chat Application Research Paper** - Published in an international journal.
- **Ride-Sharing Analytics Research Paper** - Focused on data analytics for ride-sharing optimization.
- **IBM Data Analytics Internship** - Successfully completed two-month training in data analytics.
- **Hadoop Certification** - Understanding of big data frameworks and distributed computing.
- **Big Data Certification** - Gained proficiency in data handling and analysis.
- **Microsoft Certification** - Certified in Introduction to Computers, Operating Systems, and Security.
- **IIoT Hands-on Training Certificate** - Specialized in Industrial Internet of Things and Robotics.

TECHNICAL SKILLS

Programming: Python, C, SQL, HTML

Tools & Technologies: Google Colab, Kaggle, VS Code, LaTeX

Databases: MySQL, SQLite

Libraries & Tools: TensorFlow, PyTorch, pandas, NumPy, Matplotlib, Playwright, FastAPI

Frameworks: React, Node.js, SAPUI5, SAP Fiori