

# Rohan Nag

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## Education

### Kalinga Institute of Industrial Technology

Bachelors of Technology, Computer Science and Engineering [CGPA: 8.14]

Bhubaneswar, Odisha

Oct. 2021 – Aug 2025

**Relevant Coursework:** Data Structures, Algorithms, Object Oriented Programming, Database Management, Software Development Life Cycle, Agile Methodology, Computer Network

### Kapil Gyanpeeth School

Sciences with CS Major

Jaipur, Rajasthan

Apr. 2019 – May 2021

## Technical Skills

**Languages:** Java, Python, C++, Kotlin, XML, SQL

**Frameworks:** NumPy, Pandas, Matplotlib, Seaborn, Streamlit, NLTK

**Tools:** Android Studio, Github, AWS, Figma

**Databases:** Oracle Database, MySQL, SQLite, Firebase

## Experience

### Celebal Technologies

May 2024 – July 2024

Data Science Intern

- Applied clustering algorithms like **Latent Dirichlet Allocation (LDA)** and **K-means**, leading to a 25% improvement in document categorization accuracy.
- Enhanced **text data analysis** with the Twenty Newsgroups dataset, increasing thematic insights by 30%.
- Developed NLP solutions that reduced data processing time by 20% and refined information retrieval efficiency.

## Projects

### House Price Predictor ([Github](#)) | Python, Pandas, Scikit-learn, Matplotlib

- Led development of a House Price Prediction model using LGBMRegressor, XGBRegressor, and CatBoostRegressor, achieving a 15% lower mean RMSE compared to baseline models.
- Conducted **data preprocessing and outlier handling**, which boosted model accuracy by 10%.
- Optimized model performance through GridSearchCV and feature engineering, achieving an 85% prediction accuracy on test data.

### WhatsApp Chat Analyzer ([Website](#), [Github](#)) | Python, Seaborn, Matplotlib, Pandas, Streamlit

- Created an **interactive web application** to analyse the content and sentiment of WhatsApp chat conversations.
- Implemented NLP techniques for **sentiment categorization and phrase frequency analysis**, leading to a 40% improvement in insight extraction from chat data.
- Leveraged **data visualization** libraries like Seaborn and Matplotlib to create informative charts and graphs that increased user engagement by 25%.

### ProtectU: A Personal Safety APP ([Github](#), [APK](#)) | Java, XML, SQLite, Firebase

- Improved user safety with **real-time location-based emergency alerts**, resulting in a 30% increase in user response time during emergencies.
- Integrated contact management and helpline access, improving emergency support effectiveness by 35%.
- Utilized **Java, Firebase, and SQLite** to ensure app reliability and security.

## Certifications

**Cisco:** Introduction to Data Science ([Link](#))

**Cisco:** Data Analytics Essentials ([Link](#))

**AWS:** AWS Academy Cloud Foundations ([Link](#))

**ISRO:** Geoprocessing using Python ([Link](#))

## Position of Responsibilities

### Director of Curation | TEDxKIITUniversity

Aug 2024 - Present

- Managed the curation team in organizing TEDx talks, overseeing speaker selection, content management, and event execution.

### Assistant Coordinator | TPH

Jul 2022 – Apr 2023

- Handled social media, graphic design, photography, and video editing for event promotion and branding.

### Cultural Secretary | Kapil Gyanpeeth School

Aug 2019 – Aug 2021

- Headed a student council of 60 members while organizing cultural events and fostering external collaborations.