

# TRISITA GHOSH

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## Career Objective:

Aspiring Data Engineer with a solid foundation in Python, SQL, and big data tools like Hadoop and Apache. Currently pursuing B.Tech in Computer Science with a specialization in AI & ML. Eager to leverage academic knowledge and internship experience to design efficient data pipelines, optimize ETL workflows, and contribute to scalable data-driven solutions. Committed to continuous learning, delivering results, and growing as a reliable contributor in data-centric roles.

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## Educational Qualification:

### Roorkee Institute of Technology

*Bachelor of Technology – Computer Science & Engineering (AI & ML)*

Roorkee, Uttarakhand

**Aug 2022 – Present**

### Nabadwip Balika Vidyalaya

*Class XII – PCMB*

Nabadwip, West Bengal

**2021 | Score: 79%**

### Nabadwip Balika Vidyalaya

*Class X*

Nabadwip, West Bengal

**2019 | Score: 79.6%**

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## Technical Skills:

**Programming Languages:** Python, SQL, C++, Java (Beginner)

**Frameworks & Libraries:** Pandas, NumPy, Apache, Hadoop, Matplotlib, Seaborn, Scikit-learn

**Tools & Technologies:** VS Code, Git, Jupyter Notebook

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## Work Experience:

## Technical Intern, Arcoiris Logics

*July 2025 – Present*

- Contributed to internal automation tasks (data validation/scripts) using Python.
  - Assisted in building ETL tasks for logistics data—parsing & cleaning shipments.
  - Collaborated with senior devs to optimize data processing pipelines.
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## Projects:

1. **ML Lecture Summarizer – End-to-end ML/NLP pipeline (July 2025)**
    - Built an audio-to-summary tool using speech-to-text, NLP-based summarization, keyword extraction, and quiz generation.
    - Implemented Streamlit frontend for seamless user interaction and workflow orchestration.[\[GitHub\]](#)
  2. **Collaborative Recommender System (Feb 2025)**

Implemented a recommendation system using matrix factorization and gradient descent. Personalized item suggestions based on user-item interactions.

*Python, NumPy, Recommender System.*

[\[GitHub\]](#)
  3. **Handwritten Digit Recognition using CNN – Deep Learning (March 2025)**
    - Trained a convolutional neural network (CNN) on MNIST dataset to classify handwritten digits with 98%+ accuracy.
    - Demonstrated practical application of deep learning for image-based classification.[\[GitHub\]](#)
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## Certifications:

- IBM Python Professional Certificate (April 2023)
  - HackerRank Python (Intermediate) ( April 2025)
  - PwC Power BI Data Analytics Certificate (March 2025)
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### **Extra-Curricular & Leadership:**

- Active participant in AICTE AI/ML internship focused on Artificial Intelligence and Machine Learning. These programs enhanced hands-on experience with model building, data preprocessing, and real-world applications of ML in business and healthcare scenarios. Collaborated with peers on capstone tasks and weekly challenges under the mentorship of industry experts