

# Anindita Bhattacharjee

## Data Scientist

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### OBJECTIVE

Aspiring Data Scientist with a background in Civil Engineering, a strong foundation in machine learning, statistical analysis, and committed to solving complex problems through innovation. Driven to leverage advanced data science techniques to uncover insights, optimize decision-making, and contribute to impactful projects in dynamic, results-oriented environments. Currently looking for an entry-level data analyst or data scientist position.

### EXPERIENCE

#### Data Scientist

BBSR Circular Construction Match Hackathon Challenge, N3XTCODER

Berlin, Germany

04.2025 - 05.2025

- Collaborated in a 4-member team to develop Circular Match, an AI tool to semantically match building materials using Fast API, Sentence Transformers, and pandas.
- Built multilingual similarity scoring with category filtering and automated CSV ingestion.
- Contributed to BBSR's circular economy efforts by enabling smart reuse of construction data.

#### Civil Engineering Apprentice

Water Resource Department, Public Works Department Division IV,

Kamalpur, Tripura

11.2022 - 10.2023

- Field Surveys, Data Collection, and irrigation system management.

### Project

**CircularMatch – AI-powered Material Matching Platform:** Developed an NLP-based tool for semantically matching specific and generic building materials using Sentence Transformers (MiniLM), cosine similarity, and ÖKOBAU.DAT data. Built with Python, Fast API, pandas, and Jinja2; deployed via Azure. Enables sustainable reuse in construction. Winner – BBSR Hackathon 2025.

**Loan Approval Prediction System:** Developed a machine learning-based web app to predict loan approval outcomes using applicant financial data, credit scores, and loan details. Achieved 95% accuracy with scikit-learn models. Built with Python, pandas, NumPy, and Streamlit; deployed as an interactive tool for faster, data-driven lending decisions.

**Google Cloud Project - Gans Data Pipeline:** Built a Python-based serverless data pipeline for a fictional e-scooter startup using Google Cloud Functions, Cloud Scheduler, and MySQL. Integrated APIs (weather, city, flight, airport) to automate data collection, processing, and cloud storage. Designed for scalable, real-time insights to optimize urban operations.

**Chatty – Context-Aware Conversational AI with Memory:** A developing Streamlit-based chatbot integrating LangChain, Hugging Face models, and FAISS for retrieval-augmented generation (RAG). Supports memory-enhanced conversations with contextual recall and document-based answers. Developed using Python, LangChain, FAISS, and Streamlit; enabled web access via Localtunnel. Ideal for dynamic Q&A and contextual chat experiences.

**Consumer-Sentiment-Analysis– NLP-based Sentiment Analysis of Skincare Reviews:** Built an end-to-end NLP pipeline to analyze customer sentiment from Sephora skincare reviews using VADER (NLTK). Processed and visualized sentiment trends with Python, pandas, seaborn, and word clouds.

## Skills

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**Languages:** Python, SQL

**Libraries:** Matplotlib, Seaborn, Scikit-learn, Pandas, NumPy,

**Tools:** MS Excel, Tableau, GCP, Azure, NLP tools, Automated ETL Pipelines, A/B Testing, Git/GitHub

**Databases:** MySQL, PostgreSQL

**Others:** Machine Learning, Generative AI (Beginner), Data Cleaning/Visualization

**Soft Skills:** Effective communication, proactive, self-directed, critical thinking, efficient time management, and a Team Player

## EDUCATION

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**WBS Coding School**, Data Science Bootcamp

Berlin, Germany

Project-based, team-oriented, remote training, using agile methods

07.2024 – 11.2024

Relevant Coursework: Python, Data Visualization, SQL & Database Modeling, Tableau, Statistics, Web Scraping, Cloud, ETL Pipelines, A/B Testing, Machine Learning, Generative AI

**Maulana Abul Kalam Azad University of Technology**, B.Tech in CE

West Bengal, India

**CGPA:** 8.11/10

08.2018 – 07.2021

Relevant Coursework: Numerical Methods, Engg Math, Surveying, Fluid Mech, Soil Mech, Transportation Engg, CAD, Estimation, RCC & Steel Design, Environmental Engg, Construction Management.

## ACHIEVEMENTS

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**Won – Circular Construction Match Challenge (Team 4)**

05.2025

- Hackathon organized by N3XTCODER, based on a sustainability challenge from the Federal Institute for Research on Building, Urban Affairs and Spatial Development (BBSR), Berlin, Germany

## EXTRA CURRICULUM

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Deloitte Australia Data Analytics Job Simulation on Forage - July 2025

- Completed a Deloitte job simulation involving data analysis and forensic technology
- Created a data dashboard using Tableau
- Used Excel to classify data and draw business conclusions

Article Writer: Medium

## CERTIFICATION

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- TCS iON Career Edge - Young Professional
- Introduction to Statistics
- Data Analytics for Lean Six Sigma
- Remote Sensing & GIS
- Data Analytics Job Simulation - Deloitte

## LANGUAGES

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English, Hindi, Bengali, German