

# Dipon De

Kolkata , India

Bachelor of Technology

B.P. Poddar Institute of Management & Technology, Kolkata

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GitHub Profile

LinkedIn Profile

## EDUCATION

### •Bachelor of Technology in Computer Science and Engineering

2022-2026

B.P. Poddar Institute of Management & Technology, Kolkata

CGPA: 8.53

### •Higher Secondary (Science – PCMB), WBCHSE

2022

Anandapur Higher Secondary School, West Medinipur

Percentage : 94.8%

### •Secondary, WBSE

2020

Teghari High School (H.S.) , West Medinipur

Percentage : 90.85%

## PERSONAL PROJECTS

### •Real-Time Anomaly Detection and Alert System

A real-time anomaly detection system using deep learning that sends instant image alerts via Telegram.

- Engineered a real-time violence detection solution for CCTV leveraging MobileNetV2, automating incident alerts with Telegram for rapid security response.
- It is a lightweight, easily implementable solution requiring minimal hardware constraints.
- Technology Used: TensorFlow, Keras, OpenCV, Flask, MobileNetV2, Telegram API.

### •Real-Time Twitter Sentiment Analysis Web App

A web application providing real-time sentiment analysis of Twitter data for any keyword.

- Developed scalable backend workflows for real-time tweet sentiment analysis using Python and machine learning, with integrated data visualization using dynamic charts.
- Technology Used: Flask, scikit-learn, TextBlob, NLTK, Matplotlib, Requests (scraper API)

### •Bitcoin Price Forecasting & Trading Strategy Backtesting

Developed a time series forecasting model using a stacked LSTM network to predict 30-minute Bitcoin closing prices.

- Engineered an LSTM model to forecast Bitcoin prices, resulting in a backtested trading strategy with a 139.92% simulated ROI.
- Technology Used : LSTM, Keras, TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib..

## EXPERIENCE

### •Large Language Models Internship

June - July 2025

National Institute of Technical Teachers' Training & Research (NITTTR), Kolkata

On Site

- Developed biomedical QA system by fine-tuning BioGPT with LoRA, optimizing performance and efficiency.
- Accelerated model performance by 40% and reduced VRAM usage by 75% through strategic fine-tuning of BioGPT with LoRA, enabling deployment on consumer-grade GPUs for wider accessibility.
- Modified model configurations to enable CPU compatibility by setting float32 precision in config.json for efficient deployment and broader hardware support.

### •Training & Internship part-time

January - June 2025

Sabudh Foundation & STPI

Online

- Completed a comprehensive Machine Learning module, applying supervised and unsupervised techniques for model development and evaluation; consistently achieved high performance.
- Gained hands-on experience in data science workflows using Dataiku, developing proficiency in data analysis, visualization, and platform integration.

## TECHNICAL SKILLS AND INTERESTS

**Languages:** Java, Python, HTML, CSS

**Libraries :** Keras, OpenCV, Scikit-learn, Matplotlib, PyTorch

**Tools:** VScode, Version control (Git), Github, Jupyter notebook

**Frameworks:** TensorFlow, Flask, Streamlit

**Cloud/Databases :** Oracle DB

**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering.

**Areas of Interest:** Machine Learning, Deep Learning, Large Language Models, Artificial Intelligence, Data Science.

**Soft Skills:** Patience, Attention to detail, Active listening, Goal orientation, Rapid learning

## CERTIFICATIONS

### • Oracle Cloud Infrastructure 2025 Certified Generative AI Professional, Verification link

August, 2025

### • Oracle Cloud Infrastructure 2025 Certified Developer Professional, Verification link

August, 2025

### • Oracle Cloud Infrastructure 2025 Certified Data Science Professional, Verification link

September, 2025

### • Oracle Cloud Infrastructure 2025 Certified Networking Professional, Verification link

September, 2025

### • Oracle AI Vector Search Certified Professional, Verification link

September, 2025