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## EDUCATION

### B. P. Poddar Institute of Management & Technology

Kolkata, India

Bachelor of Technology(B.Tech.) in Information Technology; GPA(till 6<sup>th</sup> sem): 7.5/10

October 2022 – Present

### CHITTARANJAN HIGH SCHOOL(ENG MEDIUM)

Kolkata, India

### CHITTARANJAN DESHBANDHU VIDYALAYA(BENG MEDIUM)

Grade XII (WBCHE); Score: 88.2%

Grade X (WBBSE); Score: 88.71%

Jan 2014 – March 2021

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## SKILLS SUMMARY

- **Languages:** Python, SQL,
- **ML & Data Science:** Machine Learning (Regression, Classification, Ensemble Methods), Feature Engineering, Model Evaluation & Deployment
- **Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Plotly
- **Frameworks & Tools:** Streamlit, Git, GitHub, Jupyter Notebook, Tensorflow, Tensorflow lite
- **Concepts:** Object-Oriented Programming (OOP), SDLC, Software Testing & Debugging, Technical Documentation, Data Structures & Algorithms, Agile Methodology
- **Data Handling:** Exploratory Data Analysis (EDA), Data Cleaning, CSV/Excel Processing, Data Transformation, Visualization & Insights

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## PROJECTS

### Gold Price Prediction (Machine Learning Model) | [Link](#) | [Code](#)

May 2025 – June 2025

- Built a machine learning model to predict gold prices using financial indicators (SPX, USO, SLV, EUR/USD) with Random Forest Regressor.
- Conducted exploratory data analysis (EDA), feature correlation study, and statistical visualization using **Pandas**, **Matplotlib**, and **Seaborn**.
- Achieved strong prediction performance (**R<sup>2</sup> Score ~0.98**) by fine-tuning the model on historical datasets.
- Converted the notebook into a full-fledged **Streamlit web app**, enabling interactive data visualization, model evaluation, and real-time price predictions from user inputs.

### TextAnalyzer-Pro (Text Analysis Tool) | [Link](#) | [Code](#)

April 2025 – May 2025

- Built an interactive **Streamlit app** for text analysis with real-time user input support.
- Implemented **word and sentence count** functionality to quantify text length and structure.
- Developed **keyword frequency extraction** to identify the top 5 most frequent words.
- Integrated **sentiment analysis** using `TextBlob` to classify text as Positive, Negative, or Neutral with polarity score.
- Added **readability scoring** via `textstat` (Flesch Reading Ease) to measure text complexity.

### Heart Disease Prediction System | [Code](#)

August 2025

- Developed a **machine learning-powered web application** that predicts the presence of heart disease using patient medical attributes.
- Implemented **Logistic Regression** with optimized hyperparameters, achieving strong accuracy on both training and test sets.
- Designed an interactive **Streamlit interface** with navigation (Home, Predict, About), enabling users to enter patient data and receive instant predictions.
- Performed **exploratory data analysis (EDA)** and visualized dataset insights (distribution, class balance, and feature impact).
- Packaged the model for deployment on **Streamlit Cloud**, making it accessible for real-time usage.

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## CO-CURRICULARS

- **Web Developer** at **TechStorm'24** (Annual College TechFest) – March 2024
- Volunteer Lead at **TechStorm'24 (Annual College TechFest)** – March 2024
- Winner at **Tech Enquesta 2.23 (Intra-college Technical Quiz, IEEE)** – November 2024
- Secured **Rank 26 out of 250+ participants** in **CodeBee (Inter-college Coding Competition at BPPIMT)** – 2024