

EDUCATION

B. P. Poddar Institute of Management & Technology Bachelor of Technology(B.Tech) in Information Technology, GPA(till 6 th sem): 7.52/10 CHITTARANJAN HIGH SCHOOL(ENG MEDIUM) CHITTARANJAN DESHBANDHU VIDYALAYA(BENG MEDIUM) Grade XII (WBCHSE); Score: 88.2% Grade X (WBBSE); Score: 88.71%	Kolkata, India October 2022 – Present Chittaranjan, India Jan 2014 – March 2021
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PROFESSIONAL SUMMARY

Data-driven Software Developer skilled in **Python, SQL, and OOP**, with hands-on experience in building **data analytics platforms, AI-powered web applications, and machine learning (ML) solutions**. Proficient in using modern tools like **Streamlit, LangChain, and Scikit-learn** to design and deploy **end-to-end systems** integrating data processing, model development, and visualization. Familiar with **Agile methodology, version control (Git/GitHub), and AWS fundamentals**. Strong problem-solving, analytical, and communication skills with a proven ability to **develop scalable, user-focused, and maintainable applications**.

SKILLS SUMMARY

- **Languages:** Python, SQL
- **Frameworks & Tools:** Streamlit, Git, GitHub, Jupyter Notebook, Selenium, Flask (basic), LangChain, Webdriver-manager
- **Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Plotly, Scikit-learn, BeautifulSoup4, LXML, html5lib, geopy, Folium, streamlit-folium, python-dotenv, langchain-ollama, langchain-google-genai, google-generativeai
- **Concepts:** Object-Oriented Programming (OOP), Data Structures & Algorithms (DSA), Software Development Life Cycle (SDLC), Agile Methodology, Software Testing & Debugging (Unit Testing, Error Handling), Modular Design, Technical Documentation
- **Data & AI:** Machine Learning (Regression, Classification), Model Evaluation & Deployment, Natural Language Processing (NLP), Generative AI (LangChain + Google Gemini), Exploratory Data Analysis (EDA), Data Cleaning, Visualization & Insights
- **Cloud:** Application deployment on Streamlit Cloud; introductory knowledge of AWS.

PROJECTS

Indian Railways EDA & Visualization (Data Analytics) Link Code <ul style="list-style-type: none">○ Designed and developed a modular data analytics platform using Pandas, NumPy, Plotly, and Folium, applying SDLC principles for maintainability and scalability.○ Conducted exploratory data analysis (EDA), statistical profiling, and feature correlation on stations, trains, and schedules datasets.○ Implemented geospatial analysis (station heatmaps, route mapping, distance calculator) and created interactive dashboards for schedule and zone insights.○ Automated generation of PDF and DOCX reports, improving reporting efficiency and stakeholder communication.○ Deployed a Streamlit web app enabling real-time exploration, dataset downloads, and interactive data visualizations.	September 2025
AI Web Scrapper (Automated Data Extraction Tool) Link Code <ul style="list-style-type: none">○ Engineered a Streamlit-based web scraping application with real-time URL validation, proxy authentication, and automated CAPTCHA handling.○ Built reusable parsing and content-cleaning modules with BeautifulSoup, enabling structured text extraction from diverse websites.○ Integrated Google Gemini LLM via LangChain to support intelligent, query-driven information retrieval.○ Conducted performance optimization and debugging, introducing chunk-based DOM splitting that reduced response time by ~40%.○ Delivered a production-ready solution with interactive dashboards, DOM content exploration, and user-defined parsing instructions.	August 2025
Heart Disease Prediction System Link Code <ul style="list-style-type: none">○ Developed a machine learning-powered application using Logistic Regression with optimized hyperparameters for medical risk prediction.○ Applied unit testing and debugging to ensure robust and maintainable predictive pipelines.○ Built a modular Streamlit interface with navigation (Home, Predict, About), enabling real-time predictions from user input.○ Conducted EDA and visualization to highlight dataset distributions, class imbalance, and feature importance.○ Packaged and deployed the solution on Streamlit Cloud, ensuring high availability and accessibility.	August 2025

CO-CURRICULARS

- **Web Developer**, TechStorm'24 (Annual College TechFest) – March 2024
- **Volunteer Lead**, TechStorm'24 (Annual College TechFest) – March 2024
- **Winner**, Tech Enquesta 2.23 (IEEE Intra-college Technical Quiz) – Nov 2024 (*demonstrated rapid analytical problem-solving among 100+ peers*)
- **Ranked 26/250+**, CodeBee Inter-college Coding Competition (BPPIMT) – 2024 (*showcased strong algorithmic and programming skills*)