

PAYEL HAZRA

Hooghly, West Bengal

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LinkedIn

Github

EDUCATION

MCKV INSTITUTE OF ENGINEERING

B.Tech – Computer Science and Engineering (Data Science) — CGPA: 9.39

2022 – 2026

Howrah, West Bengal

Begampur High School (WBCHSE)

Higher Secondary Examination — 85%

2022

Janai Bhagawandevi Goenka Girls High School (WBBSE)

Secondary Examination — 86.86%

2020

Hooghly, West Bengal

Hooghly, West Bengal

COURSEWORK / SKILLS

- Data Structures & Algorithms
- Operating Systems
- Network Security
- Database Management System (DBMS)
- Artificial Intelligence
- OOPS Concept
- Machine Learning
- Deep Learning
- Data Analytics
- Data Science

PROJECTS

Zomato Data Analysis Using Python ↗ | Pandas, NumPy, Matplotlib, Seaborn

2025

- Conducted Python-based EDA on Zomato dataset to identify patterns in restaurant ratings, customer preferences, online delivery adoption, and pricing trends.
- Built visualizations to support data-driven insights using Pandas, Matplotlib, and Seaborn

Cervical Cancer Detection and Classification ↗ | Pandas, NumPy, Scikit-learn, Seaborn

2025

- Developed a cervical cancer detection and classification system using machine learning algorithms on a CSV-based medical dataset, including data preprocessing and feature engineering
- Trained and evaluated multiple classifiers using accuracy, precision, recall, F1-score, and confusion matrix to identify the most effective model for early detection

IMDb Movie Rating ↗ | Python, requests, BeautifulSoup (bs4), pandas

2025

- Developed a Python-based web scraping solution to extract movie titles, release years, and IMDb ratings from the IMDb Top Movies page using Requests and BeautifulSoup
- Parsed and structured real-world HTML data into a CSV dataset using Pandas for further analysis

Spam-Email-Detection ↗ | Python, TensorFlow, NLP, LSTM, Pandas, NumPy

2026

- Developed a spam email detection model using NLP and TensorFlow, including text preprocessing (tokenization, padding, stopword removal) and training an LSTM-based classifier.
- Evaluated model performance using accuracy and validation metrics, demonstrating effective text classification for real-world email filtering

INTERNSHIP

Intern at Indian Statistical Institute (ISI) ↗

June 2025-July 2025

Kolkata

- Conducting research based project on Automatic Prompt Optimization techniques for LLMs; exploring gradient descent and beam search approaches using python and Transformer libraries

Intern at iStudio (Remote) ↗

2025

- Developing a mentor-guided real-world project using machine learning techniques. Attending master classes to improve knowledge and earned certificates by doing some hands-on projects.

TECHNICAL SKILLS

Languages: Python, Java, C, SQL

Developer Tools: VS Code, Jupyter Notebook, MySQL, Canva, Github, Google Colab, Kaggle

Technologies/Frameworks: Power BI, Excel, MySQL, HTML 5, ML algorithm, DL algorithm, NLP

CERTIFICATIONS

- Innovative Idea Competition - Runner Up
- Internal Smart India Hackathon - Participation
- Special Mention for Project Work - ISI
- Decoding Data: Insights Impact through Analytics 2025-26 - IBM SkillBuild
- Natural Language Processing for Developers - Infosys Springboard
- Introduction to Data Science - Infosys Springboard