# RWIK DEY | 22EE30025
## Indian Institute of Technology Kharagpur

## EDUCATION

| Year | Degree/Exam | Institute | CGPA/Percentage |
|------|-------------|-----------|-----------------|
| 2027 | Dual Degree, Electrical Engineering | Indian Institute of Technology Kharagpur | 8.71 |
| 2022 | Class XII, AISSCE | D.A.V. Public School, Kolkata | 95.8% |
| 2020 | Class X, AISCE | D.A.V. Public School, Kolkata | 97.6% |

## INTERNSHIPS AND PROJECTS

**Demand Prediction at popular tourist places in India | Sep'23 - Oct'23**  *Open IIT Data Analytics 2023*
○ Collected data from different websites regarding monthly tourist arrivals to popular places like Goa, Shimla
○ The data underwent scaling, and features were engineered using Partial Auto-Correlation Factor (PACF) plot
○ Obtained R2 scores around 0.9 using different models like **XGBoost, CATBoost, Random Forest**, implemented **Prophet** on each dataset and minimized RMSE scores
○ Link to project ( https://docs.google.com/document/d/1b84R-a_3Q_RJT_tDmcD5ezDm8xPyG5q1ICDhMHo7GmQ/edit?usp=sharing )

**Text Generative Student Query Resolution System | Oct'23- present  (Prototyping Stage)**  *Campus Pulse, KDAG*
○ Developing a Text Generative Model leveraging **LANGChain** and **HuggingFace API** to autonomously address diverse student concerns in IIT KGP campus environment, streamlining support processes and enhancing overall student experience
○ Obtaining dataset from websites like **MetaKGP, Awaaz** to train the model
○ Link to idea proposal ( https://docs.google.com/document/d/1Mdg49JT9rnYeRmytgVFyod_AOm_ubqmo4s0J8inHEzM/edit?usp=sharing )

**Semantic Segmentation on CTScan Dataset| Nov'23**  *Self Project*
○ Successfully implemented **U-Net** and **SegNet** CNN architectures on frames and masks dataset using **Tensorflow**
○ Demonstrated proficiency in model evaluation and optimization, showcasing an ability to achieve **F1 scores above 0.8** and **accuracy above 90%** for both models
○ Link to project ( https://drive.google.com/drive/folders/1NJaKnS8tU8gdiy3cVo4LQUKGN1cZ49fE?usp=drive_link )

**Churn Prediction | Oct'23**  *Coursera Project Network*
○ Developed predictive model achieving a high F2 score of 0.717, significantly reducing churn rates, enhancing subscription renewals, and boosting revenue for the streaming network service

## SKILLS AND EXPERTISE
○ **Programming Languages:** Python, C++, C, HTML, CSS, Javascript
○ **Frameworks and Libraries:** Numpy, Matplotlib, Seaborn, Pandas, React, Bootstrap, Tensorflow, Scikit-Learn

## COURSEWORK INFORMATION
○ Probability and Statistics
○ Supervised Learning
○ Programming and Data Structures
○ Deep Learning
○ Advanced Calculus
○ Linear Algebra, Numerical and Complex Analysis

## POSITIONS OF RESPONSIBILITY

**Kharagpur Data Analytics Group**  | Design Team  Aug'23 - present
○ Helping in the organization of **Kharagpur Data Science Hackathon** , an annual event by KDAG aimed at fostering innovation and collaboration in the field of data science
○ Responsibilities included soliciting sponsorships from potential companies, designing promotional posters, and managing social media outreach for the event

**Student Welfare Group**  | Web Team  Dec'22 - July'23
○ Managed events like **DepC Talks, Career Orientation Session** for academic welfare of students
○ Helped building and managing the SWG website, especially the **CV Repo** Section added which contains the CV's of students who have been selected for internships and placements from CDC

## AWARDS AND ACHIEVEMENTS
○ Secured All India Rank of 2117 in JEE Advanced 2022.
○ Secured All India Rank of 3258 in JEE Mains 2022.
○ Secured All India Rank of 163 in WBJEE 2022.

## EXTRA CURRICULAR ACTIVITIES
○ Keyboardist at **Eastern and Western Technology Music Society**, IIT Kharagpur.