**Debanik Debnath**

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**SKILLS**

## **Languages: Python , C++ , C , MATLAB, SQL.­**

## **Developer Tools: Git, Google’s Kaggle , VS Code, Visual Studio, PyCharm, Anaconda, MySQL.**

## **Libraries: Pandas, NumPy, Matplotlib,Seaborn,Scikit-Learn,TensorFlow .**

**EDUCATION**

* NIT- AGARTALA | ECE  ***CGPA*: *7.74* | 2026**
* XII (CBSE) | U.K Academy (E/M) *82%* | *2022*

**EXPERIENCE**

## ***C++ Programmer | TechnoHacks EduTech* *Jan – Feb | 2024***

## • Created a basic C++ calculator application

## • Developed a random password generator with user-defined length using C++

## • Implemented a temperature converter application from fahrenheit - celcius and vise-versa

## **Supervised ML | Jupyter Notebook | Kaggle**

* + Applied sophisticated regression algorithms like simple , Multiple and Polynomial Linear Regression in developing predictive systems.
  + Employed Lasso and Elasticnet regression for feature selection.
  + Explored fundamental concepts of supervised ML algorithms , encompassing feature engineering and model selection, employing Logistic Regression and SVM as the central analytical framework.
  + Implemented advanced algorithms – Decision Trees , Random Forest ,& boosting techniques - Ada Boost , Gradient Boost with fine tuning of parameters.

**PROJECTS**

* **Handwritten Digits Classification (Logistic Regression)**

• Trained a customized model using Logistic Regression to perform handwritten digit classification. The model is capable of accurate recognition and categorization of my individually hand-drawn digits.

* **HR salary prediction (Polynomial Linear Regression)**

*• Launched an HR salary prediction project that harnessed the power of Polynomial Linear Regression for accurate employee compensation forecasting by data analysis.*

* **House Price Prediction(Multiple Linear Regression)**

• Engineered a robust data-driven model utilizing Multiple Linear Regression to predict property values. Incorporated advanced regression techniques along with feature engineering methodologies to enhance the accuracy and precision of property value estimation.

**POSITION OF RESPONSIBILITY**

* **Society Title | Society, College**  *(Date- Present)*

**HONOURS & ACHIEVEMENTS**

* Attained multiple badges, credentials, certificates and accolades from reputable industry leaders such as IBM , freeCodeCamp and Microsoft.
* Achieved 3 stars and 50 DAYS BADGE 2023 on LeetCode.