# Ayush Jha

iyushjha7 | Ayush Jha | codechef | HacherRank | ayushanandjha1@gmail.com

## EDUCATION

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|---|---|---|
| 2020 - present | 3rd year B.Tech(Food Process Engineering) at **NIT Rourkela** | (CGPA: 8.26/10.0) |
| 2020 | Class 12th CBSE | (Percentage: 85.8) |

## SKILLS

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|---|---|
| **Languages:** | Python, C, SQL |
| **Frameworks:** | Numpy, Pandas, Matplotlib, Seaborn, Folium, BeautifulSoup4, Scikit-Learn, Tensorflow, Plotly |
| **Others:** | Web Scraping, MS Excel, Tableau, MySQL, Data Structures, GitHub |

## PROJECTS

**Spaceship Survival Prediction** | *Pandas,Scikit-Learn*                                    Link

Developed a Supervised Machine learning model to predict the survival of passenger traveling, depending upon many features. Performed feature engineering to standardize the training data using feature scaling, One hot encoding, column transformer, and built a pipeline. Applied Logistic Regression and Decision Tree Classifier for the model development and got 90% accuracy on the result data.

**USA House Price Prediction** | *Pandas,Seaborn,Scikit-Learn*                                Link

Regression model development for prediction of the price of a house in the USA based on different factors. Data cleaning is done with the help of Pandas, for analysis of dependency of features on the price used Seaborn, and normalization of data is done by scikit-learn. Developed multivariate linear regression model and polynomial regression and got 88% accuracy on result data.

**Github Web scraping** | *Python,BeautifulSoup4,Pandas,MS-Excel*                             Link

Scraped the details of the top 20 repositories on trending topics on the GitHub website using beautifulsoup4, scraped details include the name of the user, repository name, URL, and description. Imported the scraped data into csv file using the pandas library.

## WORK EXPERIENCE

**Research Project** @ *NIT Rourkela*                                                    March 2023-Present

*Prof.:- Dr.Sushil Kumar Singh*

Working on a research project for the development of a Computer Vision System for image classification and identification of different types of millets based on color and size. Classification of Finger Millet, Pearl Millet, Barnyard Millet, Foxtail Millet, and Sorghum using KNN, RF, CNN, Fuzzy Logic (Ml models) with the addition of L*a*b and YCbCr (color models)

**Data Science Intern** @ *The Sparks Foundation* (Link)                                  March 2023-Present

Working on a stock market project, for developing a hybrid ML model to predict the stock price of SnP BSE SENEX using historical stock price live data and sentimental analysis of daily news headlines.

## ACHIEVEMENTS/CERTIFICATIONS

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|---|---|
| **Advanced Learning Algorithms** - *DeepLearning.AI* | Link |
| **Supervised Machine Learning** -*DeepLearning.AI* | Link |
| **Introduction to Statistics** -*Stanford Online* | Link |
| **Data Analysis with Python** -*IBM* | Link |
| **Python Data Structures** - *University of Michigan* | Link |
| **SQL for Data Science** - *University of California, Davis* | Link |

## EXTRA CURRICULAR ACTIVITIES

**Branch Representative** @ *Institute counselling services*

**Management Team** @ *TedX NIT Rourkela*