Chinta Krishna Mourya

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EDUCATION

IIT KHARAGPUR
BTech in Ocean Engineering
MAY 2021 | West Bengal
CGPA: 6.59 / 10

BIIT JR. COLLEGE
Intermediate-MPC
March 2017 | Andhra Pradesh
Percentage : 98.2

BHASHYAM HIGH SCHOOL
April 2015 | Andhra Pradesh
GPA : 9.8

SKILLS

- Machine Learning
- Natural Language Processing
- Python
- Neural Network
- Statistical Modeling
- SQL
- Flask
- Predictive Modeling
- Statistics
- Data Wrangling
- Data Visualization
- GIT, Docker.

CERTIFICATIONS

Udemy - **Machine Learning A-Z Python in Data Science** (link)
iNeuron - **Full Stack Data Science Bootcamp** (link)

LANGUAGES

- English (Fluent)
- Telugu (Native)
- Hindi (Beginner)

EXTRACURRICULAR ACTIVITIES

• Stood **1st** in Quiz conducted by SBI YONO in Kolkata in 2018. • **Volunteered** in multiple social service programs organized by "AACHARANA Charitable trust". • **Organized** and conducted a **town-level** competitive exam for **200** 10th class students. • Participated in various activities as an **NSS candidate** during college.

EXPERIENCE

INEURON.AI | Data Science Intern
Jan 2023 – Apr 2023

- Developed end-to-end **credit card default prediction model**(link) using Python and ML tools.
- Conducted EDA, data preprocessing, and model selection with optimized Python code and logging. Out of **"SVM", "LogisticRegression", "DecisionTree", "RandomForest", "Naive Baye"** classifiers **"Random Forest"** performed better with **F1 score 0.86**.
- Designed project architecture and built **Flask web app**, deployed on **AWS EC2** for user access. Gained experience in various ML techniques, Python programming, deployment.

PROJECTS

FLAT RESALE PRICE PREDICTION (link) Nov 2022 – Nov 2022

- Conducted EDA, performed feature engineering statistical analysis, including **chi-square** tests, utilized heatmaps to identify correlations among features.
- Trained four regression models - **Random Forest Regressor, XGBoost Regressor, Decision Tree Regressor** and **Neural Network** - and compared their performance.
- Identified that the **Random Forest Regressor** model outperformed the others with **R2 score 0.96** and used it to predict flat resale prices. **XGBoost** gave **0.951**, **DecisionTree** gave **0.94** and **Neural Network** with **relative error 0.04**.

CRACK DEPTH PREDICTION OF ABAQUS MODEL (link) Aug 2020 – Dec 2020

- Analyzed cracks of varying depths in **Abaqus software** and extracted corresponding strain values merged multiple datasets to create a comprehensive dataset with crack depth as the target variable and strain values from four sensors as the independent variables.
- Trained **Random Forest Regression and Linear Regression** algorithms to predict crack depth and obtained an impressive **RMSE of 0.0007** by **Random Forest Regressor**.

SPELLING CORRECTOR (link) Mar 2023 – April 2023

- Utilized the **SymSpell** library to implement a spell correction system built a flask to take the user input. Loaded the SymSpell library with a dictionary of known words and **bigram frequencies**, which is used to compare the input text against and suggest corrections
- Wrote the function to return the suggestion with best **degree of similarity** between the misspelled word and known words in the dictionary.

MALL CUSTOMERS SEGMENTATION (link) Dec 2022 – Dec 2022

- Conducted EDA Performed customer segmentation using **KMeans clustering** algorithm. Used **WCSS**, **kneed library** , **Gap Statistic** , **DBSCAN** to determine the optimal number of clusters.
- Plotted the clusters using **Annual income vs Spending score**- **silhouette score - 0.55** and **Income vs Age vs Spending score** - **silhouette score - 0.45**.