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# **Education**

**Nalla Malla Reddy Engineering College** Hyderabad,Telangana,India

*Bachelors of Technology in Artificial Intelligence and Data science; CGPA 8.2/10 Jun 2021 - May 2025*

# **Skills**

**Languages**: Python ,C++, JavaScript.

**Machine Learning :**Supervised & Unsupervised Learning, Model Evaluation,Hyperparameter Tuning, Cross-Validation **,**

Data Preprocessing, Feature Engineering.

**Data Handling & Visualization:** Data Cleaning & Preprocessing **,**Exploratory Data Analysis (EDA).

**Web Development (MERN Stack) & other :** React.js, Next.js, Tailwind CSS**,**Node.js, Express.js, MongoDB**,**RESTful APIs,

JWT Authentication**,**State Management (Redux, Context API), DSA, problem solving skills.

**Deployment & Tools:** Flask **,**Git **,**Jupyter Notebook, Google Colab,Anaconda,Spyder,Vscode.

# [**Projects**](https://github.com/Aousulaprashant)

**Predicting Employee Attrition** : *streamlit,scikit-learn,Support Vector Classifier (SVC), Feature Engineering, Label Encoding, Hyperparameter Tuning, pandas, numpy.* **[** [**GitHub**](https://github.com/Aousulaprashant/Predicting-Employee-Attrition-ML)**]** [[**Live Deployed Link**](https://predicting-employee-attrition-mlgit-rsqxhncdhztsgtwg3pq2ka.streamlit.app/)**]**

* Developed an **SVC (Support Vector Classifier) model** for employee attrition prediction.
* Implemented **feature engineering** and **label encoding** to preprocess categorical data.
* Compared **XGBoost and SVC**, optimizing hyperparameters for better accuracy.
* Achieved 87**% accuracy**, identifying key factors influencing attrition.
* Deployed the application on **Streamlit Cloud**, making it easily accessible for users.

**Customer Feedback Analysis** : *Hierarchical clustering,NLP,nltk,Dendogram,PCA*,*Clustering* **[** [**GitHub**](https://github.com/Aousulaprashant/Customer-Feedback-Analysis-AgglomerativeClustering)**]**

* Developed a system to analyze customer feedback from **Twitter airline reviews** using **Hierarchical Clustering**.
* Implemented **text preprocessing** (tokenization, stopword removal, TF-IDF vectorization) to convert raw text into numerical features.
* Applied **Agglomerative Clustering** to group similar customer reviews, identifying patterns in sentiment and common issues.
* Utilized **dendrograms and PCA visualizations** to analyze cluster relationships and provide insights.Achieved improved customer sentiment understanding without predefined sentiment labels, aiding in business decision-making

**Multiple Disease Prediction System** :*streamlit,scikit-learn(Logistic Regression, SVM),nltk* **[**[**GitHub**](https://github.com/Aousulaprashant/Multiple-Disease-Prediction-System-ML)**][**[**Deployed Link**](https://multiple-disease-prediction-system-mlgit-a32er9hkm3gwg99tftmb2.streamlit.app/)**]**

* Developed a **disease prediction system** to assess health risks for **Diabetes, Heart Disease, and Parkinson’s Disease** using **Machine Learning (ML)**.
* Implemented a **Streamlit-based web application** for real-time health risk assessment.
* Trained models using **Scikit-Learn** with **Logistic Regression, SVM, and other classification algorithms** on medical datasets.
* Performed **data preprocessing, feature selection, and model evaluation** to ensure high prediction accuracy.Integrated **Pandas & NumPy** for data handling and processing.
* Deployed the application on **Streamlit Cloud**, making it easily accessible for users.

**Big Mart Sales Prediction:** *Machine Learning, XGBoost, Regression (Sales Forecasting)***[**[**GitHub**](https://github.com/Aousulaprashant/Big-Mart-Sales-Prediction-ML)**]**

* Developed a **sales forecasting system** that predicts **Big Mart sales revenue** using **Machine Learning (ML) regression models**.
* Implemented **XGBoost Regressor**, a powerful gradient boosting algorithm, to enhance prediction accuracy. Conducted **data preprocessing**, including handling missing values, categorical encoding, and feature selection for optimal model performance.