

# PROJECTS

<b>Market Data Analysis and Segmentation</b>	<b>1</b>
Market Data EDA	
Python File deployed via streamlit	
<b>Multi Class Classification</b>	<b>2</b>
Data EDA and Processing	
Model Generation	
Model Evalution via metrics	
<b>Product Recommender System</b>	<b>3</b>
EDA and Data Processing	
Different Model Types	
<b>Different Types of Recommender Systems</b>	<b>4</b>
Basic EDA and Data Processing	
Types of Models	
Model Serving	
<b>Deep Learning Model to classify person's actions while driving</b>	<b>5</b>
Data Generation	
Model Creation	
<b>TEAM</b>	<b>6</b>
Guide:	
Intern : P Charith	

## Market Data Analysis and Segmentation

- Exploratory Data Analysis using Numpy and Pandas
- Observations Based on EDA
- Streamlit Deployment

---

## Multi Class Classification

- Exploratory Data Analysis using Numpy and Pandas
- Models used Neural Network, XGB, SVM, OrdinalModel, Bidirectional LSTM, RBFN , Logistic Model, Decision Tree classifier, Random Forest classifier, Extra Trees classifier, AdaBoost , GradientBoost, Bagging Classifier and Convolutional Neural Network
- Model Evaluation using Metrics such as Accuracy , Precision , Recall, F1 score, RMSE and AUC score

## Product Recommender System

- Exploratory Data Analysis using Numpy and Pandas
- Models used Popularity Based , Utility Based and item-item based
- Model Serving using BentoML

## Different Types of Recommender Systems

- Exploratory Data Analysis using Numpy and Pandas
- Models used Popularity based, Utility Based, item-item based , Content Based, Knowledge Based, Demo Filtering, Meta Based , Hybrid and Model Based Recommender System
- Model Serving using BentoML

## Deep Learning Model to classify person's actions while driving

- Custom Data Generation using OpenCV
- Model used Custom VGG Model
- 3 classes : Phone , PhoneEar and awake