BANKA VENKATA KARTHIK
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SUMMARY

- A passionate learner looking for an opportunity to work as a challenging position where I will utilise my technical skills, analytical thinking and use relevant algorithms to solve real-world problems that helps the organization for their long term business values and goals.

KEY SKILLS

- Python for Exploratory Data Analysis
- MYSQL
- Machine Learning
  Supervised Learning: Decision Trees, Random Forest, Linear Regression, Logistic Regression & KNN
  Unsupervised Learning: K-Means Clustering, Principal Component Analysis
- Statistical Learning: One sample test, Two sample test, ANOVA and Chi-square
- Tableau for Data Visualization

ACADEMIC PROJECTS

- **Project 1: Comparison of News Popularity on Different Social Media Platforms**
  Description: The data set of news items and their respective social feedback on multiple platforms: Facebook, Google+ and LinkedIn. The collected data relates to a period of 8 months, between November 2015 and July 2016, accounting for about 100,000 news items on four different topics: Economy, Microsoft, Obama and Palestine. Our Objective is to compare popularity of news items on Microsoft versus Palestine.
  Key skills: Using Word Cloud- A bag of words, Normalisation and comparison of data, dividing each article into a category and these categories will be created using Topic modelling.

- **Project 2: Wine Data Clustering**
  Description: Wine dataset consists of 12 features. It's a classification problem where dependent variable is Quality of wine (Categorical having 0/1 or Yes/No). Rest of the 11 features are like alcohol, malic acid, Alcalinity of Ash, Magnesium etc. Performing all the exploratory data analysis and we found the no. of clusters in the data by dropping Quality of wine column. So, clustering forms the different type of wine clusters. After clustering we applied Random Forest algorithm to predict the dependant column for different type of wines.

  Key skills: Used **K-Means clustering** and divided dataset under three qualities. Number of clusters was decided by Elbow method and we got the accuracy score for this data is **89.88%.**

- **Project 3: Pima India Diabetes**
  Description: This Diabetes dataset consists of 9 features. The dependant variable gives whether the person is suffering from Diabetes or not (class variable having 0/1). Remaining 8 features are continuous variables like number of times pregnant, plasma glucose concentration, their BMI, insulin level, age, etc. and performed EDA and observed multicollinearity between some independent variables.

  Key skills: By using **Principal Component Analysis** technique reduced the dimensionality of dataset without increase in bias error. Number of Principal components is decided by Eigen Values. By using KNN (K-Nearest Neighbor) model predicted the patients having diabetes and got the accuracy score **76.09%.**

Hackathons/ Other relevant achievements

- Have a GitHub account and uploaded the executed codes for the machine learning algorithms using some datasets. (https://github.com/banka888/datasets)
- Participated in 'House prices: Advance regression techniques' competition in Kaggle. Observed 81 variables along with the target variable. Used regularization methods to predict the house price.

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Key skills: Used PCA technique to tap the multicollinearity among independent variables. Random forest regression algorithm which has high accuracies is used to find the price of the house.

EDUCATION

Course	Institution	Year	Remarks
Data Science Engineering (Full-Time)	Great Lakes Institute of Management	2019	Pursuing
MBA (Marketing & Operation)	Lovely Professional University, Jalandhar.	2015-2017	6.3 cgpa.
B Tech (Computer Science Engineering)	Dhanekula Institute of Engineering & Technology, Vijayawada.	2011 -2015	59%.
12th Std(MPC) from State board	Narayana Junior College, Vijayawada.	2009-2011	79%
10th Std State board	Ravindra Bharathi Public School	2009	81 %

Work Experience

ORGANISATION: '**Aparna Enterprises Ltd.', Visakhapatnam.** **01/11/2017-30/04/2018**

DESIGNATION: **Sales Executive (RMC Division)**

- Getting the Analyzed, detailed requirements and design specifications provided by the customer on field with detailed quotation. Sending those requirements given by the customer to RMC plant for delivery with specified address with particular date and time.
- Giving good service and delivery to customer with the required design mix in time and assured quality also.
- Uploading the sales call report on daily basis, reporting to marketing manager and have monthly targets.

Summer Internship

Organisation: **Rastriya Ispat Nigam Limited, Visakhapatnam.** **30/05/2016-13/07/2016**

Title: '**A Study on Distribution Network in Visakhapatnam Steel Plant'.**

Objective: To determine the dealer satisfaction of the product and future demands, needs and wants.

DESCRIPTION:

- To use the distribution channels for products delivering to the wholesalers, retailers and dealers for their wants and needs.
- To know how the sales are being generated from the past years and comparing with present year and how products are having demand from customers by using questionnaire.

Extra-curricular achievements

- Completed training on '**MS Excel 2010'** conducted at Lovely Professional University. 2016
- Workshop on '**DIGITAL MARKETING'** held in Lovely Professional University. 2015
- Seminar on, '**EXPLORING ENTREPRENEURHIP OPPORTUNITIES IN ANDHRA PRADESH'** Conducted at Dhanekula Institute of Engineering and Technology, Vijayawada. 2014
- C, Java Programming training at **BDPES**, Vijayawada. 2012