Lakshmi Narayana Aythepally

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PROFESSIONAL SUMMARY

As a skilled professional with a background in Computer Science and Engineering, I am excited about the prospect of a challenging career in the field of Data Science. With my proficiency in Python, Pandas, Numpy, Matplotlib, Seaborn, SQL, Tableau, and Advance Excel I am confident in my ability to solve complex business problems for a progressive company.

TECHNICAL SKILLS:

- Python
- Pandas
- Numpy
- Matplotlib
- Seaborn
- SQL
- C / C++
- Tableau
- Advanced Excel
- Data Analysis
- Data Cleaning
- Data Visualization
- Hypothesis Testing
- Machine Learning
- Deep Learning
- Natural Language Processing
- Dashboard Development

SOFT SKILLS:

- Creative Thinking
- Interpersonal Skills
- Strong Problem Solving Skills
- Communication Skills
- Leadership Qualities

EXPERIENCE

Institution: Srikalahasteeswara Institute of Technology, Srikalahasti, A.P, India
Duration: May 2006 – December 2021
Roles and Responsibilities:

- Teaching and conducting the practical sessions as per the curriculum of the affiliating university to Diploma, B.Tech & M.Tech students.
- Guiding a batch of final year students in completing the projects for the past 15 years successfully

INTERNSHIP

Company: The Better India, Bangalore, India
Duration: September 2022 – December 2022
Project Objective : Segregate or automate the process of classification of news articles into separate categories using deep learning & AI for better reach to the right audience.
Tools Used: Python, Pandas, NLTK, Spacy, Matplotlib, Seaborn and RNN.
Roles and Responsibilities:

- Performed data analysis, data cleaning, EDA and data visualization
- Used NLTK, Spacy modules to analyze the data & build a predictive model using deep learning.

EDUCATION

M.E.(Computer Science and Engineering) - Sathyabama University, Chennai – 2010.
B.Tech. (Computer Science & Information Technology), JNT University, Hyderabad –2004.

CERTIFICATIONS

1 year Professional Certificate Course in **'Data Science and Artificial Intelligence'** From Dataisgood, Noida MAR 2022 to MAR 2023

PERSONAL PROJECTS

PROJECT 1: Visa Approval Prediction
Tools Used: Pyhton, pandas, numpy, matplotlib, seaborn, sklearn

Analyze the data of Visa applicants, build a predictive model to facilitate the process of visa approvals, and based on important factors that significantly influence the Visa status recommend a suitable profile for the applicants for whom the visa should be certified or denied.

- Performing Data preprocessing and cleaning, Exploratory Data Analysis (EDA), Data Visualization, Preparing the data for model building,
- Building Decision tree, Random Forest, Bagging and Boosting models,
- Hyper parameter tuning and model building,
- Model performance comparison of both training and testing data

PROJECT 2: Loan Defaulter Prediction

Tools Used: Pyhton, pandas, numpy, matplotlib, seaborn, sklearn

Provided is a sample that contains the data of 90,000+ clients who have taken a loan from a financial company in the past with the information on whether the loan defaulted. The company aims to determine the relative importance of each feature with regards to their contribution as to whether a loan is going to default or not.

- Performing Data preprocessing and cleaning, Exploratory Data Analysis (EDA), Data Visualization, Preparing the data for model building,Handling over sampling and under sampling.
- Building Decision tree, Random Forest, Bagging, Support Vector Machine (SVM),Logistic Regression and Boosting models, Hyper parameter tuning and performance comparison of models

PROJECT 3: IPL Data Analysis

Tools Used: Pyhton, pandas, numpy, matplotlib, seaborn, sklearn

The Indian Premier League (IPL) is a professional Twenty20 cricket league in India usually contested between March and May of every year by eight teams representing eight different cities or states in India. The league was founded by the Board of Control for Cricket in India (BCCI) in 2007. The IPL is the most-attended cricket league in the world.

- Data Analysis, Exploratory Data Analysis (EDA), Data Visualization,
- Applied visualizations and drawn various insights.

PROJECT 4: Medical Expenses Prediction

Tools Used: Pyhton, pandas, numpy, matplotlib, seaborn, sklearn

Predict the future medical expenses of patients based on certain features. Factors affecting the medical expenses of the patients include Age, Gender, Body Mass Index, Region and Smoking Behavior.

- Exploratory Data Analysis (EDA), Data Visualization, Applied visualizations and drawn various insights.
- Building Liner Regression, Random Forest and Gradient Boosting models
- Performance comparisons of the models

PROJECT 5: Optimizing Agricultural Production

Tools Used: Pyhton, pandas, numpy, matplotlib, seaborn, sklearn

The Optimizing Agricultural Production is a cutting-edge solution aimed at enhancing crop yield and productivity by leveraging data-driven insights. Through the use of advanced machine learning algorithms, this project helps farmers make informed decisions on various aspects of agriculture such as sowing time, irrigation, fertilization, and pest control.

- Exploratory Data Analysis (EDA), Data Visualization, Preparing the data for model building,
- Performed Clustering analysis using KMeans algorithm. Building Liner Regression model.

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