RESUME

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Career Objective:

Data science enthusiast, passionate about working on highly challenging projects and technologies with my total effort, which gives growth, advanced knowledge, and respective roles in my career, benefiting the organization productively and efficiently.

Summary:

Total 2yr 8 months of experience as a Data Scientist with ZignaAi in designing and developing data analytics solutions.

- Experience in Automating processes Like Data Collection, Data Cleansing and Data Mining etc.
- Adept in data query, data migration, data analysis, predictive modeling, machine learning, data mining and data visualization implementation with extensive use of python.
- Experience in predictive analytics procedures used in supervised learning (Classification, Regression, Decision Trees, Random Forest, SVM), unsupervised learning (Clustering-k-means, hierarchical clustering), Natural language processing
- Understanding most valuable customers and discover which customers are likely to churn. Drive sales with intelligent product recommendations and automatically extract useful information from reviews
- By doing the SQL queries creating the table and worked on stored database and the design equipment on the SQL.
- Very good experience in Python
- Good Knowledge in code hosting platforms like GitHub.
- Interested in updating myself to the latest technologies prevalent in the market.

Skills:

- Machine learning: Supervised learning, Unsupervised learning, NLP, Deep learning
- Data Analytical tools: Python, SQL, R
- Visualization: Tableau
- Software language: Python.

Professional Experience:
ZignaAi (Data Scientist)
Duration: 27-08-2021 to 06-06-2023

- ➢ Worked on building the pipelines in the project to develop the product and machine learning techniques.
- ➢ Involved in step-by-step data analysis, building data flow, data cleansing, and data preprocessing.
- ➢ Contributed to maintaining and evaluating the steps done by the team in data structuring.
- ➢ Maintained data mapping from one department to the other and worked on automation of the whole process and optimizing it.
- ➢ I handle a team of 2 members working with Natural Language processing project.
- ➢ Attending Review Meetings, Walkthroughs with Team members, delivering the project on time.

Innodatatics (Data Science Intern)
Duration: Apr 2021 to Sep 2021
- ➢ Worked on two projects as a data scientist using machine learning and deep learning techniques
- ➢ Worked on tasks like data collection, data preprocessing, data validation, model building etc. with a team of 4 members.

PROJECT DETAILS:

RightPx (ZignaAi)
Duration: Aug 2021 to Apr 2022

Role	:	Data Scientist
Software Platform	:	Python 3.9

Description
- ➢ It is an application based on medical health data (The application is in use in the USA).
- ➢ The application helps determine the cost of medical aid for different types of hospitals across all the states in the USA.
- ➢ Firstly, scraping data from the hospital websites using beautiful soup, the file formats are csv, xlsx, Json, xml, xlsb, txt etc.
- ➢ Scraped files are in different formats of data (hospitals have data in their own format), so now structuring & preprocessing the all formats of data using python resources and by using pandas resources like (data reduction, missing values, handling null values, all data transformations, data group by etc.).
- ➢ After preprocessing step, extracting exact codes for the procedures, if we have multiple codes though code mapping logic.
- ➢ After getting final data, by using knowledge of medical domain-built restriction logics and updated the data into application using sql server database.

RevMaxAi (ZignaAi)
Duration: Apr 2022 to Jan 2023

Role	:	Data Scientist
Software Platform	:	Python3.9, OpenCV, Tesseract OCR.
Cloud Platform	:	AWS (AWS Lambda, AWS S3)

Description

- Main objective is to classify the likelihood of a patient developing a specific condition using Electronic medical record (PDF format).
- Firstly, we did pre-process steps, like identifying and correcting Rotation, Skew, Partial Scan, With Python resources (PyPDF2, pymupdf, OpenCV, Fitz)
- Now using pretrained spacy models, identifying medical entities from the documents and highlighting them in the pdf documents.
- Converting all the PDF's Searchable and Extracting pdf text using amazon Text Extract from electronic health records.
- Identifying Sections and sub sections in the PDF & highlighting them.
- Now by creating structured datasets, training predictive models to predict the likelihood of a patient developing a specific condition or disease.
- Automated the entire process using AWS lambda and S3 bucket.

Diabetes prediction Using Support Vector Machine (ZignaAi)
Duration: Jan 2023 to Jun 2023

Role	:	Data Scientist
Software Platform	:	Python3.9, scikit learn

Description

- The main objective of this project is to predict someone likely to have diabetes by using various factors.
- The dataset contains various factors like age, insulin, BMI etc.
- Now preparing data by removing duplicates and imputing null values and missing data in the dataset using sql database.
- Next step was training model on the data, by using various models like support vector Machine, logistic regression etc.,
- Testing the various models by hyper parameter tuning, finalized support vector Machine with high accuracy of prediction.
- Evaluated the model using confusion matrix metrics like Precision, Recall, Accuracy.

Product Quality check for E – Grocery (Innodatatics)
Duration: Apr 2021 to July 2021

Role	:	Data Scientist
Software Platform	:	Python3.9, Teachable Machine.

Description

- The main objective of this project is to classify the products by their Quality.
- This is a real-world project so images are collected directly from grocery fields, And Collected data is then labelled into good, average, and bad.

- ➢ Then the data is cleaned by removing low resolution and pixelated images.
- ➢ After pre-processing we used train test split and the augmented data is fed into pretrained model (convolutional neural networks) for evaluation.
- ➢ Now by using transfer learning techniques, used pretrained models like TensorFlow lite models, teachable machine etc.,
- ➢ Based on the accuracy of classification finalized the TensorFlow lite model as final classification model.

Stock Market Analytics using News Sentiment

Duration: Apr 2021 to Sep 2021

Role   :   Data Scientist

Software Platform   :   Python 3.9, Jupyter Notebook

Description

- ➢ The Main objective of the project is to predict the stock price movements by extracting the news headlines from news forums and by using previous stock price.
- ➢ We Scrapped news headlines from news articles or from web by using BS4, Urllib etc.
- ➢ And applied all the NLP preprocessing techniques to clean the text like Tokenization, stemming, lemmatization etc.
- ➢ After Preprocessing we calculated sentiment either positive sentiment or negative sentiment using Vader sentiment analysis.

- ➢ By generating correlation between stock price and stock news sentiment, Using NLP techniques.
- ➢ Finally, we concluded whether stock price will increase or decreases.

Professional Certifications:

- ➢ Data Science using Python and R (360DigiTMG, Hyderabad, India) (12/2020 - 02/2021).
- ➢ Artificial Intelligence and Deep Learning (360DigiTMG, Hyderabad, India) (03/2021-05/2021).
- ➢ Cognitive Exam for Machine Learning Using Python (IBM).

Academics:

- ➢ Graduation in Btech from JNTUA, Anantapur with an aggregate 79.5%.
- ➢ Diploma at Sree Vidyanikethan Engineering College, Tirupati with an aggregate of 86%
- ➢ Tenth class at Z.P. High School, Kallur with an aggregate of 7.2%.

I hereby assure that all the information furnished above is true to the best of my knowledge.

Place   : Bangalore

Date   :   (Madhusudan Reddy V)