PRATIK PATEL
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❑ Career Objective:

Diligent Analyst with over 20 months of experience. Seeking an opportunity to leverage my diverse skills and experience in data mining and analysis into the open position at your company. A B.E. in Computer Engineering coupled with my ample experience in analytics will make me a positive asset to your organization.

❑ Education:

Bachelor's Degree in Engineering (B.E.), Computer Engineering (CGPA: 8.11/10) **(June'18)**
Institute: L.D. College of Engineering

❑ Work Experience:

- **CU Rise Analytics, Ahmedabad (Analyst)** **(Oct'2018-May'2020)**
  - As an Analyst, My responsibility was mainly focused on developing the ETL framework for storing credit unions data using SSIS and visualize it with various visualization tools like Power BI, Tableau and SSRS.
  - I have worked with the Implementation team to successfully and smoothly implement the ETL framework on the client environment.
  - I have also worked with the Production Support team to rectify the problems and failures which emerged after implementing the framework.
  - I have also worked on creating an efficient time series forecasting algorithm with the help of Python and R to provide a precise prediction for a set of matrics available.

❑ Independent Projects:

- **GODSEYE**
  Objective: To build a face recognition software for the ATMs to make them more secure and user friendly.
  Method: Initially, gathered all the requirements by research, background reading, surveying the people and by taking numerous pictures of them to create a large dataset of images with various facial expressions. After that started to build flow of the software by identifying users, use-cases, class diagram, activity diagram etc. Also defined various assumptions and business constraints and finally wrote a code in python for building a software.
- **Breast Cancer Classification**
  Objective: To create a machine learning model to classify from the available features that the breast cancer is benign or malignant.
  Method: The machine learning model is created using two different machine learning algorithms namely KNearestNeighbors and Support Vector Machine. The model has been trained on various attributes like clump thickness, Uniformity of cell size, Uniformity of cell shape, Marginal Adhesion, Single Epithelial cell size, Bare Nuclei, Bland chromatin, Normal Nucleoli, Mitoses etc. The database was obtained from the University of Wisconsin Hospitals, Madison from Dr. William H. Wolberg.
- **Salary Predictor**
  Objective: To create a machine learning model which will predict the salary of an employee.
  Method: The machine learning model is created using random forest algorithm. The position level of employee and base salary value for that position is provided as inputs to the machine learning model. The ML model works very efficiently, giving the 97% of accuracy.

- **FASHION_MNIST**
  Objective: To perform image classification on FASHION_MNIST dataset.
  Method: Created Artificial Neural Network using 'relu' as an activation function for the input layer and 'softmax' as an activation function in the output layer. After performing over 30 epochs, the ANN gives 92% of training accuracy and almost 90% of testing accuracy.
- **CIFAR10**
  Objective: To perform image classification on CIFAR10 dataset.
  Method: Created Convolutional Neural Network using 'relu' as an activation function for the input layer and 'softmax' as an activation function in the output layer. After performing over 20 epochs, the CNN gives 94% of training accuracy and almost 74% of testing accuracy.
- **Economic Empowerment of Women Globally**
  Objective: To create a Tableau dashboard about Economic Empowerment of Women globally.
  Method: As an active participant of the MakeOverMonday challenge, I have created a Tableau dashboard about the exploring gender inequality in the context of economic empowerment and opportunity. The data source is provided by World Bank. The original data tracks thirty-five aspects of the law across 190 economies, and then scores those economies across eight indicators of four or five binary questions. Women, Business and the Law designed each of the indicators to represent a different phase of a woman's career.
- **Comparing Common Mental Disorder by Sex**
  Objective: To create a Tableau dashboard about comparing common mental disorder in men and women.
  Method: As an active participant of the MakeOverMonday challenge, I have created a Tableau dashboard about the increasing rate of women having common mental disorder. The data source is provided by NHS Digital. The dashboard represents the possible cause of increasing the rate, symptoms of mental illness and also the prevention of the illness.

❑ **Publications:**

A Paper published in International Journal for Scientific Research & Development titled with 'A Survey Paper On 3D Face Recognition Methods' | Vol. 5, Issue 11, Jan 2018 | ISSN (online): 2321-0613.

❑ **Independent Coursework and Achievements:**

- Machine Learning by Stanford University
- Learn to Program: The Fundamentals by University of Toronto
- Neural Networks and Deep Learning by deeplearning.ai
- Tableau 2020 A-Z: Hands-On Tableau Training by Udemy
- A Complete Guide on TensorFlow 2.0 using Keras API by Udemy

❑ **Skills:**

- **Area(s) of Interest :** Statistics, Machine Learning, Artificial Intelligence, Computer Vision, Data Analysis, Data Visualization
- **Programming Language(s):** SQL, R, C++, Python
- **Tools and Technologies:** MSSQL, SSIS, SSRS, Tableau, ARIMA, Holt-Winters, NumPy, Pandas, Matplotlib, Scikit-Learn, Jupitar, OpenCV, MySQL, Excel, RStudio, ANN, CNN, RNN, Reinforcement learning, NLP, TensorFlow, Keras

❑ **Volunteer Experience:**

Honorary member of an NGO called 'Ishan Foundation' which works towards assuring that the poorest and vulnerable in our world have access to the fundamental rights of life.