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**\* ML developer**

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Around **4 plus years of experience as an ML Developer** in data-driven solutions to increase efficiency, accuracy, and utility of internal data processing, I'm as well Experienced in creating data classification and regression models, using predictive data modeling, and analyzing data mining algorithms to deliver insights and implement action-oriented solutions to complex business problems.

### **Professional Experience**

Result oriented as a Data scientist with around 3 years of experience in Data science and Machine Learning. Proven track record of creating and managing predictive models for multi million-dollar global industries and banks. Expertise in classification, regression and clustering algorithms. Practical experience in data cleaning, data analysis and data visualization to deliver valuable insights and increase business efficiency.

- Delivered 5 Projects within agreed budget, time and quality out of which two were for E-commerce companies and one was for a bank institute.
- Built a Classification model for a bank institute which helped them classify customers into those who will subscribe to their service and those who will not. This eventually helped them save a lot of time and the huge investments which they used to pay to marketing platforms.
- Created a fraud detection system for an E-commerce platform which resulted into reducing the losses of company occurred by frauds by significant amount.
- Increased revenue of another E-commerce company by segmenting their customers into various groups and personalized marketing strategies by around 5-6% in initial months itself.
- Performed RFM analysis, checked data with respect to Pareto's principle along with clustering algorithms on customer data.
- Conducted pre-processing on NLP dataset and performed various steps like tokenization, cleaning, normalization, stop words removal, etc

### **Data Science, Python & ML -**

- Strong Python Programming skills using **OOPS, Functions, Modularization & decorators**.
- Sound Knowledge of Python's **Data Analysis** and **Machine Learning Libraries**.
- Strong experience **Predictive analytics, feature engineering, XGBoost, and model deployment**
- Development of REST APIs in Python. Experience in Web Framework **Flask**.
- Implementation of **regularization** techniques like **Lasso and Ridge in regression**.
- Data mining algorithm experience in the families of predictive algorithms (Regression, **KNN, and Decision Trees, Ensemble technique**) and clustering algorithms (**k-means clustering**).
- **Naïve Bayes, SVM**
- RFM analysis.
- Ability to process **Text Processing using NLTK library**.
- Experience in data management tools – **Non-Relational and SQL databases**.
- Ability to use Web Scraping Tools as a **regular expression**.
- Source code management and Version Control system using **Git and GitHub**.
- Cloud platform for deployment- **AWS**
- Proficient in **machine learning / Deep Learning / natural language processing**.
- Working Exposure with **DataBricks, pyspark and MLflow, Docker, Power BI**.

**Experience** – Jun 2021 to till date in **Epiq System India Pvt Ltd, hyderabad** as **ML developer**.

## Generative AI -

- Experience of **Generative AI in LLMs, RAG, Fine-Tuning etc**
- Hands on experience with various **generative AI tools**, such as **Lang-Chain, Llama-Index, Llama-Factory**.
- Experience with **Large Language Framework & Vector Databases**.
- Hands on variety of **ML, NLP, DL algorithms**(such as **Bagging, Boosting, Natural Network (CNN,RNN) LSTM, BERT/ TRANSFORMER ARCHITECTURE**) etc
- Programming Languages: **Python**
- Frameworks & Tools: **TensorFlow, PyTorch, LangChain, LlamaIndex,Streamlit,Flask**
- Generative AI Technologies: **Open-source and paid LLM models (Llama2, Mistral,OpenAI,Google Gemini Pro)**.
- Vector Databases: **ChromaDB, Pinecone**.
- Database Management: **Experience with DataStax Cassandra DB in production environments, Mysql, Mongoddb**.
- Deployment Platforms: **AWS Bedrock, AWS (EC2, Lambda), Azure Functions, Hugging Face Spaces**.
- AI/ML Techniques: **Fine-tuning with custom data, vector embedding, NLP, Neural Network Optimization, MLOPS, Docker**s.

## Projects Handled-

<b>Project</b>	<b>Financial Report Analysis Chatbot</b>
<b>Domain</b>	Ecommerce
<b>Description</b>	We are developing on AI Powered chatbot platform that helps investors analyze financial documents, Specially quarterly and annual reports. These reports are often extensive and complex, making it difficult for investors to extract the key information they need. Our chatbot process by automatically identifying important data points and user to interact with the documents through nlp.
<b>Roles and Responsibilities</b>	<ul style="list-style-type: none"><li>• Managed and optimized VectorDB such as a chromaDB and pinecone, enhancing AI application data retrieval capacity.</li><li>• Developed scalable AI solutions- using Langchain and Llamaindex frameworks.</li><li>• Implemented and fine tuned both open- source and paid LLM models, customizing solutions to meet specific project requirements and performance goals.</li></ul>
<b>Project</b>	<b>Product review Sentiment analysis using NLP</b>
<b>Domain</b>	Ecommerce
<b>Description</b>	Classify the sentiment and review posted by the customer on the ecommerce portal. Provide that information to the call center person to resolve the issues of the customer.
	<ul style="list-style-type: none"><li>• Work on data collection</li><li>• Perform tokenization</li><li>• Cleaning</li><li>• Normalization</li><li>• Stopword removal</li><li>• Stemming and lemmatization</li><li>• Word Embedding</li></ul>

## Projects Handled-

<b>Project</b>	<b>Increase the revenue of the online eCommerce portal by predicting customer behavior.</b>
<b>Domain</b>	<b>E-commerce</b>
<b>Description</b>	<p>Allbird.com is the online retail portal. Provides service mainly in the USA Also in different areas like Japan, Germany, and China. They are facing a loss because of some marketing problems like not reaching the proper customer in case of the promotional event and some discount offers are running.</p> <p>So they come to us to find the solution.</p> <p>We help them to analyze the customer behavior with the help of RFM and k means clustering.</p>
<b>Roles and Responsibilities</b>	<ul style="list-style-type: none"> <li>• Understand, analyze, and interpret large datasets</li> <li>• Do RFM analysis</li> <li>• Perform the clustering based on the RFM analysis.</li> <li>• Do model building.</li> </ul>
<b>Project</b>	<b>Increase bank revenue by finding subscription for different services.</b>
<b>Domain</b>	<b>Finance</b>
<b>Description</b>	<p>A chime bank in digital banking, chime Bank offers a comprehensive range of innovative financial products and services with the highest level of security. Our powerful web-based platform gives you streaming real-time data and one-click to predict whether the customer will enroll for the term deposit or not – the same essential capabilities featured in our desktop software. CMV Group's arsenal of lending and analysis tools gives you advantages once enjoyed only by professional traders.</p>
<b>Roles and Responsibilities</b>	<ul style="list-style-type: none"> <li>• Understand, analyze, and interpret large datasets</li> <li>• Develop advanced programs to extract the data needed, prepare data for further analysis</li> <li>• Discover, design, and develop analytical methods to support novel approaches to data and information processing</li> <li>• Perform analysis to assess the quality of the data, determine the meaning of the data, and provide data facts and insights.</li> <li>• Build the model that gives the best solution to the problem,</li> </ul>
<b>Project</b>	<b>Reduce the loss of the e-commerce online retail portal by identifying fraudulent transactions.</b>
<b>Domain</b>	<b>Ecommerce</b>
<b>Description</b>	<p>Allbird.com is the online retail portal. Provides service mainly in the USA</p> <p>Also in different areas like Japan, Germany, and China.</p> <p>They are facing a loss of about 2.5 % due to the fraudulent transaction</p> <p>They came to us to find a solution to detect the fraudulent transaction. And prevent the loss that occurs due to the fraudulent Transaction.</p>
<b>Roles and Responsibilities</b>	<ul style="list-style-type: none"> <li>• Work on data collection</li> <li>• Do EDA Processing and feature engineering</li> <li>• Write quality code while following best practices</li> <li>• Communicate with different customers/Project Lead Managers to understand needs in different verticals and think of critical solutions in these domains</li> </ul>