Abhishek Singh Tomar

Data Scientist
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Education, licenses, and certifications
- BS in Programming and Data Science from IIT Madras
- MSc in Mathematics from IIT Madras
- Generative AI with Large Language Models from Coursera

Data Scientist

Professional and Industry Experience

I am a data science consultant with 6+ years of experience in business problem-solving using ML and DL.I have a foundational understanding of large language models: GPT, LLAMA, Lang chain. My primary focus is on using a variety of tools and techniques to support companies in optimizing their business processes and improving overall performance. I am committed to continuously expand my expertise in large language models and other emerging technologies.

Technical Skills:

ML using Python (Linear & Logistic Regression, SVM, Random Forests, Ensemble Models, Data Mining & Analytics), Statistical & Mathematical Modelling using Python, **ETL using SQL & PySpark** . **LLMs- ChatGPT, Flan T5, & LLAMA Models** (Prompt Engineering and Fine-Tuning).

Work Experiance:

Data Scientist

KPMG in India (Digital Lighthouse Team)   April 2023- Currently Working Here

I possess working experience with large language models: ChatGPT, Flan T5, and LLAMA Models. I have worked on prompt engineering, zero-shot, one-shot, and few-shot inference. I am proficient in advanced prompting techniques: RAG, PAL and ReAct. I am also proficient in LLMs fine-tuning utilizing methods: PEFT, QLORA, and RLHF.

Below are some of my projects/POCs:

1- I employed prompt engineering to extract the essential points from the legal contract for all departments.

2- I utilized GEN AI for the conversion of SAS code to PySpark, ensuring seamless migration and compatibility with the Spark framework.

3- I harnessed the power of prompting and LangChain to efficiently extract and process information for the research work.

4- I have successfully designed dashboards that utilize text-to-data visualization capabilities powered by GEN AI.

5- I designed and implemented a cutting-edge employee leave submission application powered by GEN AI. This innovative solution streamlines the leave request process, enhancing efficiency and user experience for employees through advanced language processing and automation features.

Abhishek Singh Tomar

Bajaj Allianz General Insurance Company Ltd(Actuarial Department)   **June 2017- March 2023**

I have working experience in both ML based and Rule Based Modeling. I worked in various machine learning techniques: Linear Regression, Logistic Regression, SVM for both Linear and Non-Linear classification, KNN, Random Forest, Boosting and clustering algorithms.

Below are some of my projects:
1- I used K-means clustering techniques to groups the entire commercial vehicle into three groups. This project helped Actuarial department to analyze the commercial vehicles.
2- Machine Learning Model to predict whether an owner will initiate an auto insurance claim in the next year. Built this model for fraud analytics team
3 - Inflation Prediction Model to predict TP death claims amount. Regression technique was used, and inflation was predicted on incurred claims amount accident period wise.
4- Fraud risk assessment model
Built a rule-based model using some predefined fraud experience. And calculated risk score at claim level. Basis of this score, the investigation team picked the claim for investigation.