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PROFILE

Data Scientist with nearly 4 years of experience in natural language processing and machine learning model optimization. Skilled in deploying solutions using Python, Flask, and AWS, leading to improvements in predictive analytics and user satisfaction. Focused on leveraging data insights to drive business growth and enhance customer experiences.

EXPERIENCE

ITC Infotech - Gurugram, Haryana, India

February 2024 – Present

Data Scientist

- Spearheaded an interdisciplinary team of 3 to architect advanced machine learning models, boosting predictive analytics accuracy by 20%.
- Streamlined data science processes leveraging **Scikit-learn**, slashing analysis time by 30%.
- Shaped product development strategy by delivering pivotal data-driven insights on customer behaviour.
- Deployed Dash and SQL to craft interactive data visualizations, demystifying complex data for stakeholders and enhancing decision-making processes.

Jasper Colin - Noida, U.P., India

September 2022 – February 2024

Machine Learning Engineer

- Executed extensive analysis on financial news and company data for due diligence, delivering comprehensive insights into company performance and stock portfolio trends.
- Orchestrated the development and fine-tuning of an LLM (LLAMA 2) using PEFT, focusing on text summarization of financial news to detect trends and patterns in specific companies.
- Devised scalable solutions utilizing LangChain and FastAPI, enhancing the extraction and summarization of financial insights.
- Launched the model on an AWS EC2 instance, ensuring reliable and efficient access to the summarized financial data.

LTIMindtree - Bengaluru, Karnataka, India

March 2021 - August 2022

Python Developer

- Collaborated on the development of over 15 innovative features using Python, Flask, and REST API.
- Developed Python documentation sites, reducing search time by 10%, demonstrating expertise in Git, GitHub, and various cloud tools.
- Facilitated the creation of a data visualization dashboard using Dash, significantly enhancing data interpretation for stakeholders.

EDUCATION

Rajkiya Engineering College – Ambedkar Nagar, U.P. Bachelor of Technology in Information Technology Major in Computer Science, Statistics & Machine Learning

July 2016 - September 2020

Maharaja Agrasen Inter College – Agra, U.P. Intermediate - Mathematics and Science

July 2014 - June 2015

SKILLS

- · Programming Languages: Python, R, SQL, C++
- · Data Analysis: Pandas, NumPy, Scikit-learn, SciPy, Statsmodel
- · Machine Learning: TensorFlow, Keras, PyTorch, NLTK, Gensim, RNN, LSTM, CNN, OpenCV
- · Generative AI (GenAI): Large Language Models (LLMs), Langchain, Streamlit, transformers, GenAI with structured and unstructured data,
- · Data Visualization: Matplotlib, Seaborn, Plotly, Dash
- · Databases: MySQL, PostgreSQL, MongoDB
- Other Tools: Git, Docker, Databricks, Kubernetes AWS, GCP, AWS SageMaker, AWS Jumpstart, Jupyter Notebook, Excel, Scrapy, BeautifulSoup, Linux

PROJECTS

Fine-Tuning a Large Language Model

- Fine-tuned the LLAMA3-8B model using Parameter-Efficient Fine-Tuning (PEFT) techniques, significantly reducing computational overhead and improving task-specific performance
- Achieved substantial performance improvements without extensive computational resources, enhancing the sustainability and cost-effectiveness of the fine-tuning process.

AI-PDF Assistant

- Integrated OpenAI and HuggingFace APIs: Developed a Python-based PDF comprehension tool, combining OpenAI's and HuggingFace's APIs with Langchain for accurate, real-time query responses.
- Enhanced User Interaction: Crafted a Streamlit interface for improved user experience and employed PyPDF2 for efficient PDF data handling.

Sentiment Analysis Web Application

- Engineered and deployed a sentiment analysis web application on AWS EC2 using Python and Flask, achieving an 85% accuracy rate in analyzing over 10,000 tweets.
- Utilized scalable algorithms and integrated Twitter API for real-time data collection, processing 5,000+ tweets to enhance customer sentiment understanding for targeted marketing.

Find Other Project Here %

OTHERS

Certifications:

	Generative AI with Large Language Models - DeepLea	arning.AI and AWS	9
	Python for Data Science, AI & Development - IBM		P
•	Applied Plotting, Charting & Data Representation in Python Data Science Methodology - IBM		8
•	The Top 5 Machine Learning Libraries in Python	- Udemy	9
•	Complete Python programming from Basics to Advance level	- Udemy	8
•	National Workshop on "Image Processing and Computer Vision & Application"		

Awards:

- · Strategic Contributor LTIMindtree (2022)
- · Rising Star Award LTIMindtree (2021)