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OBJECTIVE

As an experienced AI/ML Engineer, my goal is to leverage my expertise in building scalable and efficient machine learning models to tackle real-world challenges in industries such as media, finance, and ecommerce. I am seeking a position that will allow me to apply my skills in data preprocessing, feature engineering, and model deployment to create customized AI/ML solutions that drive business growth and profitability. Additionally, I am committed to keeping up-to-date with the latest advancements in the field and staying at the forefront of emerging technologies.

SKILLS

AI/ML : Linear Regression, Logistic Regression, Ensembles, K-means clustering, PCA, Keras, Tensorflow, Transformers, LSTM, BERT, GPT, T5 (Text-to-Text Transfer Transformer), RNN, Random Forest, OpenAI, Langchain, LLamaIndex

Natural Language Processing : Web Scraping, Text Mining, Stemming, Lemmatization, Tokenization, Named Entity Recognition, Rule Based Matching, Word2Vec, NLTK, Spacy, Glove.

Data Analysis & Visualisation: Numpy, Pandas, Dask, Matplotlib, Seaborn, Scikit Learn, Clustering.

Python: Regular Expression, Json, Web Scraping, OOPs, File Handling, Functional programming, Pydantic, Joblib, Tqdm, Boto3, Requests, ftplib, OpenCV, tkinter

Backend: Celery, RabbitMQ, Flask, Docker, Kubernetes, Grafana

Version Control: Git, Gitlab

Database Systems: MySQL, PostgreSQL, MongoDB, Redis, AWS S3, AWS Neptune (Gremlin), VSFTP, Pinecone

Self-Learning Projects

Multi-Document Q&A Chatbot Using Langchain, LLM and PineCone (Feb 2024)
Goal: To build a contextual chatbot that can ingest multiple extension documents, embed and store them in a vector db. Generates responses based on questions asked by the user by fetching top 3 matching chunks of data from db.
Technologies Used: Langchain, OpenAi, Pinecone, HuggingFacehub, Flask, gpt-3.5-turbo, llama2

Projects

Vision+ Thumbnail Generation (https://www.visionplus.id/)

MNC Group, **Role:** AI/ML Engineer, **Timeline:** November 2023 - Present

• Using YOLO, Deepface, Mediapipe, CV2 extract high quality thumbnails from videos on the basis of image quality, facial expression and object detection. And further enhance thumbnail quality with CV2.

Motion Trade (https://www.motiontrade.id/)

MNC Group, **Role:** AI/ML Engineer, **Timeline:** May 2023 - November 2023

• **EDA:** Collect, visualize, decompose, check stationarity, transform, detect outliers, analyze correlation.
• **Data Gathering Pipeline.**
• **Model Training Pipeline.**
• **Recommendation Models:** Ridge regression for action prediction and price prediction.

RCTI+ (https://www.rctiplus.com/)

MNC Group, **Role:** AI/ML Engineer, **Timeline:** February 2023 - May 2023

• **EDA:** Data wrangling, munging and cleaning.
• **User profiling:** Formulate user profiles by leveraging data on their past viewing behaviour, ratings, and pertinent demographic attributes to enrich the personalized user recommendations.
• **User Segmentation:** Performed user segmentation using k-mode clustering.
• **Recommendation Models:** Designed hybrid recommendation systems which includes collaborative filtering,

because you watched(real time recommendation), and Preference and Recency based recommendation systems

using Graph database, AWS Neptune (Gremlin).

Vision+ (https://www.visionplus.id/)

MNC Group, **Role:** AI/ML Engineer, **Timeline:** January 2022 - January 2023

• **EDA:** Data wrangling, munging and cleaning.
• **User profiling:** Formulate user profiles by leveraging data on their past viewing behaviour, ratings, and pertinent demographic attributes.
• **User Preference Generation:** Generated user preferences using user behaviour data for personalized recommendation and user segmentation.
• **User Segmentation:** Performed user segmentation using mini batch k-means clustering, and evaluated the results using the Silhouette coefficient and the Elbow method.
• **Data Pipeline:** Created end-to-end data pipeline for large datasets of user demography and user behaviour data.
• **Recommendation Models:** Designed hybrid recommendation systems which includes collaborative filtering, preference based recommendation and content based filtering with AWS Neptune.

BuddyKu (https://buddyku.com/)

MNC Group, **Role:** AI/ML Engineer, **Timeline:** December 2021 - January 2022

• Conducted unit testing for each model with predefined testing scripts and ensured model accuracy, reliability and availability in DEV, UAT and PROD.
• Monitored the model's performance post-deployment to ensure it met expectations and requirements.
• Implemented adjustments to the data pipeline based on the feedback obtained from the product team.
• Improved existing AI/ML models by incorporating tags searched by the users.
• Prepared testing and visualization scripts for the product team usage.

EXPERIENCE

AI/ML Engineer

MNC Group, Gurgaon, December 2021 - Present

• Solved complex business problems with the help of machine learning.
• Setup data pipeline for data gathering, cleaning, wrangling and munging to ensure optimal performance during model training and evaluation.
• Presented AI/ML project outcomes and insights to stakeholders, driving data-driven decision-making and strategic planning.
• Collaborated with cross-functional teams to integrate AI/ML solutions into existing systems and workflows.
• Continuously monitored model performance, making updates and adjustments as needed to maintain accuracy and adapt to changing data patterns.

Social Media Manager

Raj Bhavan, Uttar Pradesh, Lucknow, December 2019 - October 2021

• Managed social media accounts and activities for the Hon'ble Governor of Uttar Pradesh.
• Crafted and published timely, engaging content that highlighted the Governor's initiatives, resulting in an increase in audience engagement.

Content Writer

Aadox, Lucknow, July 2019 - December 2019

• Create technical content for diverse industries and audiences.
• Use SEO techniques for search engine visibility and deliver compelling content to effectively communicate client messages.

EDUCATION

Bachelor of Engineering

Electronics & Telecommunication

Pune University, Pune, Maharashtra, 2011