

Dhananjay Singh

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in /dhananjaysingh

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Professional Experience

Software Developer, ProDT Consulting Services

May 2024 – present

- Developed and exposed RESTful APIs for frontend applications, providing role-based access to specific resources and features depending on the assigned user roles.
- Engineered the backend architecture for projects utilizing Flask, Python and Supabase, ensuring scalable, maintainable, and robust services.
- Integrated LinkedIn's official API to programmatically handle complex CRUD operations, including dynamic post uploads, fetching data, and managing comments, optimizing workflow automation for LinkedIn interactions.
- Designed and Implemented data models for various applications.

AI development intern, Entertainment Technologists

Jan 2024 – April 2024

- Developed various models to detect text in videos and classify each frame into various categories.
- Developed an interactive web app for the models making them ready for deployment.
- Developed a robust and efficient Streamlit application for image deduplication and IMF.
- Utilized OCR, OpenCV, Tesseract, EasyOCR, Google Cloud APIs, Streamlit.

Data analyst intern, VG Energies

Jan 2019 – Feb 2020

- Utilized clustering algorithms to segment customers based on purchasing behavior to enable targeted marketing strategies. Tools used: Python, K-means clustering.
- Performed social media sentiment analysis using APIs to analyze customer sentiments about the company's products. Tools used: NLP, Python, Tableau.
- Developed machine learning algorithms to identify potential customers.

AI/ML intern, Interpe

Nov 2023 – Dec 2023

Education

MSc Artificial Intelligence, Queen Mary University of London

2021 – 2022

Bachelors in Computer Applications, S.S Jain Subodh PG College

2015 – 2018

Projects

MusicGAN for Generating Lofi Music using Emotions in a Poetry

- Developed a MusicGAN model that employs advanced deep learning techniques, including recurrent neural networks (RNNs) and attention mechanisms, combined with natural language processing to generate emotionally resonant Lofi music based on textual input.
- Showcased a unique fusion of cutting-edge technologies and fine-tuning complex Deep Learning architectures to capture the subtle nuances of music composition.

Music Genre Recognition System.

- Developed and implemented a project focused on improving Music Genre Recognition.
- Leveraged state-of-the-art neural networks and transfer learning methods, incorporating attention mechanisms and a pre-trained model.

Skills

Python, RESTful APIs, Docker, PyTorch, Deep Learning, TensorFlow, AWS, OOPs, Natural Language Processing (NLP), Convolution Neural Networks, Large Language Models (LLM), Git, Github, PostgreSQL, Streamlit, Flask, Temporal, Confluence, Jira.

Certifications

- PG Diploma in Data Analytics
- LLMs with Google Cloud and Python
- AI Agents in LangGraph

Imarticus 2018
Udemy
DeepLeaning.AI