Yuval Mehta

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Education

SVKM's Narsee Monjee Institute of Management Studies **2019 - Present**
Bachelor of Technology in Computer Science *Mumbai, India*

Relevant Coursework

- Data Structures
- Software Methodology
- Algorithms Analysis
- Database Management
- Artificial Intelligence
- Computer Architecture
- Data Mining
- Machine Learning
- Data Science
- Deep Learning
- Natural Language Processing
- Computer Vision

Experience

Kenmark ITAN Solutions **December 2022 – May 2023**
Backend Developer Intern *Mumbai, Maharashtra*

- Developed APIs for MELO (music distribution), MSC Job portal, and Medical Mandi (medical equipment e-commerce) projects, ensuring seamless integration and functionality.
- Led quality assurance initiatives across these systems, ensuring high performance and reliability standards.
- Specialized in Node.js development for efficient and scalable backend solutions.
- Proficiently managed SQL and MySQL databases to handle data storage and retrieval effectively.
- Utilized GitLab for version control to track code changes and collaborate with team members.
- Demonstrated expertise in Linux server management and hosting, ensuring smooth deployment and operation of web applications.

Projects

Fashion images generation | Python, Tensorflow, Numpy, Kaggle, Streamlit **May 2024**
* Developed a Generative Adversarial Network (GAN) to generate images similar to Fashion MNIST data from noise and classify them into their respective categories.
* Utilized different optimizers to demonstrate the impact of various algorithms on image generation quality.
* Created a webpage using Streamlit for demonstration purposes.
* Showcased proficiency in machine learning, image generation, and classification techniques.
* Enhanced understanding of generative models by analyzing the effects of different optimizers on the GAN's performance.

News translate, summarize and sentiment | *Python, Tensorflow, Streamlit, NLTK, Transformers* **April 2024**
* Developed a News Translate, Summarize, and Sentiment Analysis system capable of processing news articles in multiple languages.
* Utilized natural language processing (NLP) techniques and machine learning algorithms to translate articles into different languages accurately.
* Implemented text summarization algorithms for generating concise and informative summaries, facilitating quick understanding of key points in news articles.
* Incorporated sentiment analysis tools to analyze and track public opinion trends expressed in the articles.

Sign Language Recognition | *Python, Tensorflow, Numpy, Pandas, Open-CV* **March 2024**
* Developed a model using transfer learning on a hand signs image dataset for accurate classification.
* Created a user-friendly application to predict hand signs from video data in real time.
* Utilized deep learning frameworks like TensorFlow for model training.
* Implemented image processing and computer vision algorithms for feature extraction.

Early Diabetes Prediction | *Python, Scikit-learn, Pandas, Numpy, Streamlit* **November 2023**
* Developed a Streamlit-based web app to predict diabetes probability from symptoms like polyuria, polydipsia, etc., using various machine learning models including base and ensemble models.
* Authored a research paper on the project, currently pending publication.

Technical Skills

Languages: Python, JavaScript, SQL, C, C++, Java
Technologies/Frameworks: Pytorch, Tensorflow, Scikit-learn, Django, Git, Flask, Node.js, Express.js,
Developer Tools: VS Code, Jupyter, Kaggle, MySQL, MongoDB

Publications

IEEE Apcit 2024
Title: Examining different machine learning approaches for predicting diabetes in the early stages
* Researched and analyzed diverse machine learning algorithms for early-stage diabetes prediction. Collected and processed relevant medical data, identified key features, trained models, evaluated performance, and determined optimal approach through result analysis.