MOHIT WANI

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EXPERIENCE

Data Science Intern, Ahen Jan 2023 - March 2023

- Analyzed data from the driving schools, to identify competitor strategies and business requirements, leading to a 15% growth in the target market for the company in 2023.
- Collected data from over 500 companies across metropolitan regions, and processed it through the Extract, Transform, and Load (ETL) techniques for data analysis, preprocessing, and visualization, resulting in a 10% increase in customers.
- Employed Python programming to perform exploratory analysis (EDA) and support another team by delivering analysis reports.

Machine Learning Intern, **Feynn Labs** Feb 2022 - Apr 2022

- Segmented the Ed-tech market using data from over 20 states and applied unsupervised learning techniques to cluster data by demographic and geographic parameters, leading to a 10% increase in daily active users on the platform.
- Collaborated with cross-functional teams to develop and implement a machine learning algorithm that accurately categorized students within online educational platforms, leading to a 20% increase in retention rates.
- Utilized Python programming for market segmentation, categorizing data into clusters based on age and literacy rates, and optimizing data analysis processes for better insights.

EDUCATION

Bachelor of Engineering | Artificial Intelligence and Data Science - AISSMS IOIT, Pune. June 2020 - May 2024
CGPA**:** 8.35

ACADEMIC PROJECTS

Question-Answer Evaluation ChatBot.

Python, Langchain, Gemini-Pro, Google Generative AI, Streamlit.

- Developed a generative AI application to improve user learning and assessment in health and sports topics and utilized the Gemini Pro model and LangChain framework to facilitate dynamic question generation and accurate evaluation.
- Utilized Streamlit to design a user-friendly front-end, enabling users to engage with AI-generated questions and provide responses and Enhanced user experience by integrating an intuitive interface for seamless interaction.
- Assessed user answers against model responses to ensure accuracy and provide detailed feedback on correctness and relevance.

Fault Diagnosis in Inverter Circuit using AI.

Python, Tensorflow, Scikit-Learn, Pandas, Numpy, HTML, CSS, Bootstrap, Flask, REST API.

- Created a project using deep learning models and optimization techniques to detect faults in VSI, achieving an 89% increase in model accuracy and significantly reducing maintenance costs and time.
- Performed ETL by creating a virtual VSI model in MATLAB and used mathematical programming to ensure accurate feature selection and extraction.
- Establish evaluation metrics and methodologies to assess quality and Integrated REST APIs using Flask web framework.

Diabetic Retinopathy Detection.

Python, HTML, CSS, Tensorflow, Scikit-Learn, Numpy, Seaborn, Flask.

- Developed a project for early detection of diabetic retinopathy using a publicly available dataset, Google images, and augmented data, resulting in 89% accuracy and real-time prediction capabilities.
- Deployed a powerful ResNet as a base model and leveraged frameworks such as TensorFlow and Scikit-learn to elevate the model's accuracy from 75% to an impressive 85%.
- Integrated deep learning models for diabetic retinopathy detection are used in the web application, using convolutional neural networks (CNNs) for fast image processing and high accuracy.

Skills

Languages/Frameworks - Python, SQL, Tensorflow, Keras, Scikit Learn, Pytorch, Flask, Langchain, Llama index.
Tools and Technology - Linux, Git and Github, LLMs, Docker, Natural Language Processing, Feature engineering, Data analysis, Data visualization.
Soft skills - Communication, Public speaking, Teamwork.

Certification

Databases and SQL for Data Science with Python by Coursera

Key concepts - Relational database, Data warehousing, SQL, MySQL database, Python.

Deep Learning Specialization by Coursera

Key Concepts - ANN, RNN, CNN, LSTM, Hyperparameter tuning, Image recognition.