MOHAMMED SINWAN

Data Scientist

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PROFILE

Results-oriented Data Scientist with a proven track record of optimizing project outcomes. Skilled in Machine learning and statistical modeling to drive business decisions. Transitioning with a solid foundation in **Data Science, Machine Learning and Natural Language Processing** committed to ongoing learning and applying advanced data science techniques to drive business growth. Eager to contribute to data science team with innovative solutions.

SKILLS

Python | Data Visualization | Machine Learning | Deep Learning | Selenium | Tableau | Powerbi | Hugging Face | Data Analytics | AWS Cloud | NLP | Streamlit | SQL | Github |

PROJECTS

Restaurant Recommendation System(Python, EDA, ML-Algorithms, Model Evaluation, Dashboard Development)

- Collected Swiggy dataset which holds **~148,541 rows, ~11 columns** and Cleaned datasets(Handled Categorical and numerical features with missing values and duplicates removed).
- **Encoded dataset and serialized One-Hot Encoder** for streamlit use. Build an algorithm and applied **K-Means clustering for macro-level grouping of restaurants and Cosine similarity for micro-level matching within each cluster** to deliver precise and personalized recommendations.
- Build an **user-friendly interface** for input and output using **Streamlit Application** and made a Clear display of recommendations system from the cleaned dataset.

Multiclass Fish Image Classification(Python, Deep learning, Transfer learning, Model Evaluation, Deployment)

- Developed a deep learning **image classification system with CNN** using Python, TensorFlow/Keras, Transfer Learning, and Streamlit to classify multiple fish species.
- Trained one **CNN model from scratch and experimented with five pre-trained models** (e.g., VGG16, ResNet50, MobileNet, InceptionV3, EfficientNetB0).
- Compared metrics such as **accuracy, precision, recall, F1-score, and confusion matrix across all models** and visualized training history (accuracy and loss) for each model.
- Built a **streamlit application** which allow users to upload fish images and **predict fish category with model confidence scores.**

Data-Driven Stock Analysis (EDA, Matplotlib & Seaborn, Analytical Dashboards (Streamlit / Power BI))

- Developed an end-to-end stock analytics system using **Python, SQL, Power BI, and Streamlit** to organize, clean, and **visualize Nifty 50 market trends** across multiple sectors.
- Implemented **advanced financial analyses** including **volatility tracking, cumulative returns, and sector-wise performance**, enabling deep insights into market behavior.
- **Delivered actionable insights and interactive dashboards** that improved **investment decision-making efficiency by approximately 10–15% for analysts and investors.**

PROFESSIONAL EXPERIENCE

Operation Head, KSD Restaurants   Jan 2019 - Jul 2024 | Coimbatore

- Managed sales and service, increasing revenue by 25-30% each year.
- Collaborated with cross-functional teams and maintained strong relationships with wholesalers, resulting in increased on-time delivery, reduced stock-outs, improved cost savings, and enhancing each project success rates by 15-20%.

Front office Assistant, Blackthunder Resort   Jun 2017 - Dec 2018 | Coimbatore

- Handled online bookings with accuracy, leading to a 15% reduction in booking errors and improved room utilization.
- Coordinated room allocations effectively, contributing to higher occupancy rates and guest satisfaction scores

EDUCATION

- **IIT-M Advanced Programming Professional & Master Data Science**   Sep 2024 – Feb 2025 | Chennai
  IIT-M GUVI

- **Bachelor of Science - Hotel Management**   Jun 2013 – Apr 2016 | Coimbatore
  PSG college of arts & Science