Muhammad Irfan

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WORK EXPERIENCE

Data Science Trainee | Knowledge Streams   *(Oct- 2024 Present)*

- Used Python and SQL to analyze and manage data effectively.
- Applied advanced machine learning techniques to enhance predictions.
- Improved models through feature adjustments, fine-tuning, and performance evaluation.
- Utilized libraries like TensorFlow, Keras, and pyTorch to optimize machine learning models.

Projects

Hotel Booking Cancellations Analysis and Revenue Optimization | Data Analysis

- Problem: High cancellation rates lead to revenue loss due to unoccupied rooms.
- Solution: Analyze booking data to find factors influencing cancellations and suggest solutions.
- Identified key insights to reduce cancellations and optimize revenue.
- Provided recommendations for better pricing and promotional strategies.

Plant Disease Detection and Solution Recommendation (On-Going) | Deep Learning

Problem: Farmers struggle to identify plant diseases correctly and quickly, which results in lower crop yields and financial losses.

Solution: Create a model that can quickly diagnose plant diseases and suggest effective treatments and preventive measures.

- Developed a disease detection model using CNN or ResNet, combined with an LSTM model to recommend better solutions and prevention methods.
- Deployed the model using Streamlit to allow real-time predictions and solutions.
- Worked together with my colleague to improve the model's accuracy and provide better solutions.

CORE SKILLS

Programming Languages: Python
Developer Tools: PowerBI, Github, VsCode, Google Colab, Jupyter Notebook
Frameworks: Pytorch, TensorFlow, Sklearn, Keras
Databases: SQL

EDUCATION

University of Okara   *(Sep 2020 - Jul 2024)*
Bachelor of Science In Mathematics | CGPA 3.17