Shubham G. Tade

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https://github.com/shubhu111

SUMMARY

Aspiring Data Scientist and Analyst with practical experience in Python, SQL, Machine Learning, Deep Learning (CNN, RNN, LSTM), and NLP (using NLTK). Strong foundation in EDA, predictive modeling, data visualization, and deploying real-time AI models. Proven ability to translate complex data into actionable insights through hands-on projects. Currently learning about Generative AI and LLMs. Ardent about solving real-world problems with data.

SKILLS AND STRENGTHS

- **Programming:** Python, SQL
- **Data Handling & Transformation:** Pandas, NumPy, Data Cleaning, Scaling, Encoding
- **Statistical Analysis:** Central Tendency, Distributions, Correlation, Hypothesis Testing
- **Machine Learning:** Supervised & Unsupervised Learning, Feature Engineering, Model Evaluation
- **Deep Learning:** CNN, RNN, LSTM, ANN, OpenCV
- **NLP:** Text Classification, Tokenization, Named Entity Recognition (NER) using NLTK
- **Visualization & Reporting:** Power BI, Advanced Excel, Matplotlib, Seaborn
- **Tools & Libraries:** Scikit-learn, TensorFlow/Keras, Jupyter Notebook
- **Soft Skills:** Explaining ideas in a clear way, Being a good listener, Team Collaborative

PROJECTS

1. **Detecting Pneumonia in Chest X-Rays | Deep Learning Project**
   - Built a CNN model to classify chest X-rays as Normal or Pneumonia with 80% accuracy.
   - Performed data preprocessing, class imbalance handling, and data augmentation on 1,400+ training images.
   - Designed a CNN with dropout and tuned learning rate to improve generalization.
   - Exported the model as a '.joblib' file with a real-time classification speed of 2 seconds per image.

GitHub: https://github.com/shubhu111/-Detecting-Pneumonia-in-Chest-X-Rays-Using-CNN-Ai-project.git

2. **Bank Loan Approval Classification | Machine Learning Project**
   - Developed predictive model improving bank loan approval accuracy 98% using 61,000+ financial records.
   - Analyzed 61,000+ records, removed outliers, balanced data, and standardized features to enhance model.
   - Created and optimized a Stacking Algorithm combining Decision Tree, Random Forest, AdaBoost, SVC, Logistic Regression, and GaussianNB, achieving a highest overall accuracy of 98%.
   - Saved the model as a '.pickle' file for deployment and enabled real-time predictions.

GitHub: https://github.com/shubhu111/Bank-Loan-Approval-Classification-Machine-Learning-Project.git

3. **Hotel Booking Data Analytics and Visualization Using Microsoft Power BI**
   - Conducted interactive dashboards analyzing trends in 50,000+ hotel bookings to uncover actionable insights
   - Used Power BI to analyze cancellations, seasonality, and customer behavior across 50,000+ records.
   - Designed and delivered interactive dashboards, enabling data-driven decisions for hotel revenue optimization.

GitHub: https://github.com/shubhu111/Hotel_Booking_Data_Analytics_Using_Power-Bi_Project.git

EDUCATION

B.Tech- Computer Science and Engineering | 2024

- Shreeyash College of Engineering & Technology, Aurangabad | 2020 – 2024 | 7.48 CGPA

CERTIFICATIONS

Mastering Data Science, 3RI Technology, Pune | Jul 2024

- Gained expertise in Python, Machine Learning, Deep Learning, and Data Visualization using Microsoft Power BI and Advanced Excel while working on capstone projects involving predictive modeling and AI solutions.

ACHIEVEMENTS

- Completed Accenture's Data Analytics Virtual program with distinction, mastering advanced visualization techniques.
- Completed PwC's Power BI Virtual Program; built interactive dashboards and optimized reporting.