Shubham G. Tade

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https://github.com/shubhu111

SUMMARY

Data Scientist and Data Analyst skilled in Python, SQL, Machine Learning, and Deep Learning. Experienced in predictive modeling, data visualization, and EDA. Successfully developed AI models like pneumonia detection (80% accuracy) and bank loan classification (98% accuracy). Proficient in Microsoft Power BI and Excel for data-driven insights

SKILLS AND STRENGTHS

- **Programming:** Python (NumPy, Pandas, Matplotlib, Scikit-Learn), SQL.
- **Data Visualization:** Microsoft Power BI, Advanced Excel.
- **Machine Learning:** Supervised and Unsupervised Learning, Feature Engineering, Predictive Analytics.
- **Deep Learning:** Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN), OpenCV, Natural Language Processing (NLP) using NLTK, Recurrent Neural Networks (RNN) with LSTM
- **Soft Skills:** Explaining ideas in a clear way, Working well in a team, Understanding problems before solving them

EDUCATION

B. Tech in Computer Science: Shreeyash College of Engineering & Technology, Aurangabad | 2020 – 2024

- Relevant Coursework: Statistical Modelling, Machine Learning, Advanced Algorithms

12th (Science): Shree Bappu Saheb Deshmukh Junior College, Jalgaon Jamod | March 2019

- Passed with Distinction

10th: The New Era High School and Junior College, Jalgaon Jamod | March 2017

- Passed with Distinction

PROJECTS

1. Detecting Pneumonia in Chest X-Rays | Deep Learning Project

- Engineered a CNN-based predictive model for classifying chest X-ray images into Normal and Pneumonia categories with an accuracy of 80%.
- Performed data preprocessing, handled class imbalance, and applied data augmentation techniques on 1,400+ training images
- Designed and trained a CNN with dropout layers and a tuned learning rate, reducing overfitting and improving generalization.
- Dump the model as a .joblib file with a real-time classification speed of 2 seconds per image.

Tools Used: TensorFlow, Data Augmentation, Deep Learning, Image Classification, Jupyter Notebook.
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 models for bank loan approval, analyzing demographic and financial data from 61,000+ records, improving accuracy by 98%
- Analyzed 61,000+ records, removed outliers, balanced data, and standardized features to enhance model.
- Designed 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.

Tools Used: Python, Scikit-Learn, Pandas, NumPy, Jupyter Notebook, Matplotlib, Seaborn.
GitHub: https://github.com/shubhu111/Bank-Loan-Approval-Classification-Machine-Learning-Project.git

3. **Hotel Booking Data Analytics and Visualization Using Microsoft Power BI**
   - Developed interactive dashboards analyzing trends in 50,000+ hotel bookings to uncover actionable insights
   - Analyzed cancellations, seasonality, and customer trends using Power BI.
   - Built data-rich dashboards to support decision-making.

Tools Used: Microsoft Power BI, Data Analysis, Visualization.
GitHub: https://github.com/shubhu111/Hotel_Booking_Data_Analytics_Using_Power-Bi_Project.git

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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.
  - Certification : completion_certificate.pdf
- Completed PwC's Power BI Engineering Virtual Program. Focused on creating interactive dashboards and optimizing data reporting.
  - Certification : completion_certificate.pdf
