Full Stack Web Developer

ALANSHA M

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Kollam, Kerala, India

Skills

- Python (Jupyter Notebook, Pandas, NumPy, SciPy, Matplotlib, Seaborn)
- Machine Learning, Deep Learning
- SciKit-Learn
- Data Visualization, Data Manipulation
- HTML, CSS
- MySQL, SQlite3, MongoDB, Cassandra
- PySpark
- Django
- Web Scrapping
- Flask
- Natural Language Processing (NLP)
- Amazon(AWS)
- Artificial Neural Network (ANN), Convolutional Neural Network (CNN), Recurrent Neural Network (RNN)
- Tensorflow, Keras, PyTorch
- OpenCV
- Object Detection

Work Experience

WEB DEVELOPER

Cyberia Softwares Pvt Ltd, Technopark, Trivandrum

July 2024 – Present

- Collaborated with senior developers to design and implement efficient database schemas for project scalability.
- Utilized version control systems like Git to manage and collaborate on code in a team-based environment.
- Worked on **both front-end and back-end** development using technologies like JavaScript, HTML5, CSS3, Bootstrap, and Django templates.
- Integrated payment gateways and third-party **APIs** for real-time data exchange and secure transactions in e-commerce projects.

JUNIOR DATA SCIENTIST

Oracuz Infotech Pvt Ltd, Trivandrum

June 2023 – June 2024

- Led data cleaning and preprocessing efforts, enhancing data quality and reliability, resulting in a **30%** reduction in model training time.
- Contributed to the development and deployment of ML models for customer segmentation, leading to a **25%** increase in targeted marketing effectiveness.
- Designed and implemented over 40 machine learning models for different programs and projects.
- Verified results of algorithms to predict future occurrences using real world programs data with **82%** precision.

MACHINE LEARNING INTERN

iNeuron Intelligence Pvt Ltd, Bangalore

January 2024 – March 2024

- Improved an accuracy rate of from **78.3% to 82.23%** in predicting credit card defaults using the Random Forest algorithm using hyper parameter tuning, demonstrating strong model performance and predictive capabilities.
- Developed and deployed a web application on **Amazon EC2** instances using Flask, enabling real-time access to the credit card default prediction model for users and Utilized Cassandra database for efficient storage and retrieval of large-scale credit card transaction data
- Check out my GitHub repo for further information https://github.com/alnxha7/credit_card_default.git

Projects

DIABETES PREDICTION WITH PYTORCH ANN

- **Description:** Introduced a diabetes prediction model using PyTorch Artificial Neural Networks (ANN), achieving a classification accuracy of **76.62%** in predicting diabetes onset based on patient data.
- **Technical Stack:** PyTorch, Flask, Python, HTML5, CSS3.
- **Key Features**:

- **Feature Engineering**: Applied optimization techniques, improving model performance by 8%.
- **Real-time Deployment**: Deployed using Flask, reducing inference time by 20%.
- **Dataset**: Trained on 768 patient records, ensuring robustness and generalization.
- **Impact**: Offers an early prediction tool for diabetes onset, aiding healthcare professionals.
- https://github.com/alnxha7/Diabetes_prediction_using_pytorch_ANN

PEPPER DISEASE CLASSIFICATION USING TENSORFLOW

- **Description:** Built a TensorFlow CNN model for pepper plant disease detection, achieving 100% accuracy in test dataset on 2,475 images, aiding in early diagnosis and crop management.
- **Technical Stack:** TensorFlow, Python, Keras, OpenCV.
- **Key Features**:

  - **Feature Engineering**: Applied optimization techniques, improving model performance by 8%.
  - **Accuracy**: Perfect accuracy achieved, ensuring robust performance in agricultural settings.
  - **Impact**: Aids farmers in early diagnosis and effective management of crop diseases.
  - https://github.com/alnxha7/Pepper-disease-Classification_using_Tensorflow

SENTIMENT ANALYSIS USING NLP

- **Description:** Conducted sentiment analysis on over 3,100 Amazon Alexa reviews using advanced NLP techniques.
- **Technical Stack:** Python, XGBoost, Flask, Pandas, NLTK
- **Key Features**:

  - **Model Selection**: Achieved 94% accuracy using XGBoost, optimized through Grid Search.
  - **Real-time Deployment**: Deployed locally via Flask for efficient analysis.
  - **Multiple Data Sources**: Capable of processing both text inputs and CSV files.
  - **Impact**: Provides actionable insights for businesses to improve products based on feedback
  - https://github.com/alnxha7/Sentiment_Analysis_using_NLP

EVENT MANAGEMENT PLATFORM

- **Description:** Created a web-based platform for event organizers to manage events and attendees, allowing users to browse and register for events.
- **Technical Stack:** Python, Django, MySQL, JavaScript, HTML5, CSS3, Bootstrap, AJAX.
- **Key Features**:

  - **Dynamic Updates:** Real-time availability and registrations using AJAX.
  - **Role-Based Access**: Organizers can create and manage events, while attendees can browse
  - **Payment Integration:** Secure ticket purchases via Razorpay.
  - **Notifications:** Automated email confirmations and reminders.
  - **Analytics Dashboard:** Insights for organizers on registrations and revenue.
  - Impact**:** Simplifies event organization and improves attendee experience.
  - https://github.com/alnxha7/event_booking.git

Education

- BSc COMPUTER SCIENCE
  June 2020 – 2023

- ADVANCE DIPLOMA IN AI AND ML
  December 2023

Certifications

- Certificate in Build a computer vision app with Azure Cognitive Services - *Microsoft*
- Certification in Python - *HackerRank*
- Certification in AI and ML - *Global India Techno Hub*