Rebecca Bonah

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Rebecca38

Education

University of South Dakota, BS in Computer Science August 2024 – Present

- GPA: 3.9/4.0
- **Coursework:** Computer Architecture, Comparison of Learning Algorithms, Computational Theory

Experience

Data Labeling Specialist, Datamaker Ghana Limited – Ghana July 2023 – June 2024

- Annotated and structured datasets to develop accurate and efficient AI systems.
- Utilized advanced tools for image annotation and classification, enabling precise object labeling for computer vision models.
- Played a key role in semantic segmentation projects, labeling complex images to enhance object detection capabilities.
- Managed and tracked large datasets using the Synapse dashboard, ensuring high data quality and consistency.
- Contributed to dataset validation, ensuring labeled data met quality standards for high-performing machine learning algorithms.

Web Developer , Ghana Web Designs Nov 2021– Oct 2022

- Designed and developed dynamic web pages to enhance user experience and responsiveness
- Implemented backend services to handle API requests efficiently, improving website performance
- Optimized database queries for faster data retrieval, reducing load times significantly
- Developed a real-time dashboard for tracking user engagement and site analytics
- Automated website deployment processes using CI/CD pipelines for seamless updates

Projects

Image Classification Model https://github.com/Rebecca38

- Developed a deep learning model to classify images into multiple categories using CNN architectures
- Improved accuracy through data augmentation, hyperparameter tuning, and transfer learning
- Tools Used: Python, TensorFlow, Keras

House Price Prediction

- Built a regression model to predict house prices based on features like location, size, and amenities
- Implemented feature engineering and optimized performance using ensemble learning techniques
- Tools Used: Python, Scikit-Learn, Pandas

Sentiment Analysis on Customer Reviews

- Designed an NLP-based classifier to analyze customer sentiments from product reviews
- Utilized word embeddings and transformer models for improved sentiment classification
- Tools Used: Python, NLTK, Hugging Face Transformers

Fraud Detection System

- Developed a machine learning model to detect fraudulent transactions in financial datasets
- Applied anomaly detection techniques and ensemble models to enhance precision and recall

- Tools Used: Python, Scikit-Learn, XGBoost

Breast Cancer Diagnosis Prediction

- Cleaned and preprocessed the dataset using Pandas, handling missing values and detecting outliers
- Conducted exploratory data analysis (EDA) with Matplotlib and Seaborn for visualization
- Developed classification models using Logistic Regression and Random Forest
- Achieved high accuracy through hyperparameter tuning and evaluated performance with precision and recall
- Tools Used: Python, Scikit-Learn, Pandas, Matplotlib, Seaborn

Technologies

Languages: C++, Java, SQL, JavaScript, TypeScript, Python

Technologies: Microsoft SQL Server, XCode, Interface Builder, TensorFlow, PyTorch, OpenCV, Scikit-Learn, Hugging Face Transformers, React, Next.js, Node.js, Tailwind CSS,