Kashif Ahmed

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Passionate Machine Learning and Computer Vision Engineer with expertise in deep learning, Python, and image processing. Looking for a dynamic role to design innovative algorithms and advanced models.

EXPERIENCE

- **AI-Powered Emergency Classification System - Final Year Project**   *June 2024*

    - Developed an emergency classification system using BiLSTM for speech-to-text analysis.
    - Integrated VoIP/GSM for real-time user interaction and emergency reporting.
    - Designed a front-end and back-end for managing emergency reports and call history.
    - Implemented AI-based classification to categorize emergencies into Fire, Police, and Medical.

- **AI Model Trainer and Response Improvement Specialist - Remotask, Scale AI**   *Sept 2023 - Dec 2023*

    - Mathematical Model Training: Proficiently trained AI models in various mathematical domains, enhancing their accuracy and performance through rigorous data analysis and algorithm refinement.
    - Chemistry Model Training: Successfully trained AI models to comprehend and generate accurate responses in chemistry-related tasks, ensuring precision and reliability in chemical data interpretation and analysis.
    - Student and Teacher Response Improvement: Skillfully improved the quality of teacher responses in student-teacher interaction scenarios, optimizing dialogue flow and enriching educational experiences through tailored AI model enhancements.

- **Real-Time Object Detection System - Personal Project**   *March 2023*

    - Built an object detection model using YOLO and OpenCV for real-time applications.
    - Optimized model performance to achieve high accuracy and low latency.
    - Developed a user-friendly interface to display detected objects with bounding boxes.
    - Integrated with Raspberry Pi for IoT-based security surveillance.

PROJECTS

- **Predictive Analytics for Customer Churn**

    - Developed a machine learning model to predict customer churn using logistic regression and random forests.
    - Analyzed customer behavior data from a telecom company to identify factors influencing churn.
    - Improved retention strategies by providing actionable insights to reduce customer attrition.
    - Deployed the model using Flask for real-time churn prediction.

- **House Price Prediction using Machine Learning**

    - Built a regression model using Random Forest and XGBoost to predict house prices based on location, size, and other features.
    - Performed exploratory data analysis (EDA) to identify key factors affecting housing prices.
    - Used feature engineering techniques to improve model accuracy.
    - Created an interactive dashboard with Streamlit for real-time price estimation.

- **Sentiment Analysis on Product Reviews**

    - Collected and preprocessed Amazon product reviews to analyze customer sentiment.
    - Applied Natural Language Processing (NLP) techniques using NLTK and spaCy.
    - Developed a deep learning model (LSTM) to classify sentiments as positive, negative, or neutral.
    - Visualized insights using Matplotlib and Seaborn to showcase customer preferences.

- **Credit Card Fraud Detection System**

    - Built a machine learning pipeline using anomaly detection techniques to detect fraudulent transactions.
    - Used imbalanced learning techniques (SMOTE) to handle class imbalance in credit card transaction data.
    - Implemented logistic regression and ensemble methods (Random Forest, XGBoost) for high-precision fraud detection.
    - Achieved **98% precision** and deployed the model using Flask for real-time fraud detection.

COURSES

- **Data Science and Machine Learning Bootcamp with Python** (Udemy)

- **Applied Data Science with Python Specialization** (University of Michigan - Coursera)

- **IBM Data Science Professional Certificate** (Coursera - IBM)

- **Python for Data Science, AI & Development** (Coursera - IBM)

- **Deep Learning for Data Science** (Fast.ai / DeepLearning.AI)

- **Machine Learning for Data Science** (MIT OpenCourseWare)

- **Natural Language Processing for Data Science** (Udemy / Coursera)

TECHNICAL SKILLS

- **Languages:** Python, C++, SQL

- **Libraries:** Keras, TensorFlow, PyTorch, Pandas, Matplotlib, NumPy, Scikit-learn, SciPy, Seaborn, tqdm

- **Developer Tools:** Git, GitHub, VS Code, Jupyter Notebook, Google Colab, Slack, Microsoft Office