Khushi Gajjar

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github.com/khushigajjar

Summary

Data Science & Machine Learning Enthusiast with a strong foundation in **data pre processing**, **machine learning algorithms**, and **statistical analysis**. Experience in building and deploying predictive models using **Python**, **scikit-learn**, and **TensorFlow**. Demonstrated expertise in **supervised and unsupervised learning**, **NLP**, and **data visualization** through hands-on projects like **Car4U** and **sentiment analysis**. Interested in extracting information from complex datasets, with a passion for leveraging **AI** and **ML** to drive data-driven decisions. Looking for opportunities to contribute to innovative solutions in AI/ML development.

Experience

Data Science & Machine Learning Intern , Param Group of Companies Jan 2025 – Present

- Analyzing large datasets and deriving actionable insights.
- Applying machine learning algorithms to solve business problems.
- Collaborating with senior data scientists on data-driven projects.
- Assisting with data preprocessing and feature engineering.
- Developing and evaluating predictive models to improve business efficiency.
- Gaining hands-on experience with real-world data science and machine learning applications.

Data Science & Machine Learning Intern , BrainyBeam Technologies Pvt. Ltd May 2024 - Jun 2024

- Collected, cleaned, and engineered features from a large dataset of car attributes (price, make, model, ratings) using **pandas**, **NumPy**; performed exploratory analysis with **Matplotlib** and **Seaborn**.
- Implemented **collaborative** and **content-based filtering** models using **KNN** and **Random Forests** for car recommendations based on user preferences and features.
- Applied precision, recall, F1-score, and RMSE to evaluate model performance; iterated through hyperparameter tuning for optimization.
- Deployed the recommendation system using **Flask** for real-time car suggestions, integrated with a web platform for scalability.

Cloud Computing Intern , Academor Jun 2023 - Jul 2023

- Worked with **AWS** and **Azure** platforms to create and manage **scalable cloud solutions**.
- Focused on **cloud resource provisioning**, **automation**, and **performance tuning** for cost-effective deployments.
- Developed a **static website** with a **student records database** and deployed it on **Azure** using **Azure Storage Services**.
- Optimized website performance, ensuring **scalability** and **cost efficiency** in cloud hosting.

Skills

- Programming: Python, SQL
- Data Science: Data Analysis, Statistical Modeling
- Machine Learning: Supervised Learning, Unsupervised Learning, Classification, Clustering
- Data Visualization: Matplotlib, Seaborn, Plotly, Streamlit
- Libraries: Pandas, NumPy, Scikit-learn, TensorFlow, Keras
- Databases: MySQL, Azure Storage

Education

Navrachna University, BTech in Computer Science And Engineering Oct 2021 – May 2025

- **Coursework:** Data Structures and Algorithms, Database Management Systems, Machine Learning, Computer Networks, Web Development, Operating Systems, Data Science, Cloud Computing, Object-Oriented Programming, Computer Vision, Cybersecurity, Compiler Design

Projects

Crop Recommendation App github.com/name/repo

- Contribution: Developed a model for the classification of soil types based on images submitted by users and the prediction of disease using image processing techniques.
  - In this project, I contributed to the building of a machine learning model that classifies soil types by analyzing images uploaded by users.
  - The model used image-processing techniques to extract features from the images and predict the most suitable soil type for various crops.
  - In addition, I worked on integrating a disease prediction system that utilized image processing algorithms to detect potential crop diseases, providing farmers with valuable information for preventive measures.
  - This helped optimize crop recommendations based on soil quality and plant health, ensuring better agricultural outcomes.
- Tools used: OpenCV, Pillow (PIL), scikit-image, TensorFlow, Keras, Scikit-learn, XGBoost, Pandas, NumPy, Matplotlib, Seaborn, Jupyter Notebook

Amazon Product Review Sentiment Analysis github.com/name/repo

- Contribution: Developed a sentiment analysis model to classify Amazon product reviews as positive, negative, or neutral based on textual content.
  - I implemented a sentiment analysis model using Natural Language Processing (NLP) techniques to analyze and classify Amazon product reviews.
  - The project involved pre-processing text data, including tokenization, lemmatization, and stopword removal, using libraries such as NLTK and SpaCy.
  - I applied machine learning algorithms, such as Logistic Regression and LSTM, to classify the reviews' sentiments. Additionally, I evaluated the model's performance using metrics like accuracy, precision, recall, and F1-score.
  - The model successfully provided insights into customer sentiment, helping businesses better understand customer feedback.
- Tools Used : Logistic Regression,LSTM, NLTK, Juputer Notebook

Certificates

AWS Academy Machine Learning Foundations | AWS

AWS Academy Cloud Foundations | AWS

AWS Academy Machine Learning Foundations | AWS

AWS Academy Machine Learning for Natural Language Processing | AWS

Data Visualization | Kaggle

Introduction to Neural Network | Simplilear