Rakshit Khajuria

Machine Learning Engineer

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SUMMARY

Skilled in developing and implementing data-driven solutions to real-world problems, utilizing a range of tools and techniques to extract valuable insights from large and complex data sets. Possesses a diverse experience in cleaning and analyzing data, enhancing existing models. Continuously seeking to enhance my skills and broaden my knowledge in the dynamic field of data science.

SKILLS

- **Tools** : Python, Git, GitHub, Jupyter Notebook, Anaconda, VS Code
- **Packages :** Scikit-Learn, NumPy, Pandas, Matplotlib**,** NLTK, TensorFlow, Flask, Streamlit, Spacy, Text blob, Vader.
- **Machine Learning**: Supervised learning, Unsupervised learning (Clustering algorithms), Decision trees, Random forests, Neural Networks.
- **NLP** :Sentiment analysis, Text classification, Named Entity Recognition, Word Embedding, Topic Modeling, Deep Learning NLP models (e.g., Transformer, BERT, LSTMs)

SOFT SKILLS

Time management • Problem-solving • Leadership • Teamwork • Presentation skills • Confidence

PROFESSIONAL EXPERIENCE

RESEARCH INTERN

Jul 2022 – present
Jammu, India

- Developed and implemented a sentiment analysis model to extract and classify emotional context from scraped Reddit data on suicidal discussions.
- Utilized advanced techniques, including unsupervised pre-trained models (e.g. Vader, TextBlob) and clustering algorithms (e.g. KMeans, DBScan), to accurately analyze and interpret sentiment.
- Enhanced model performance through the use of deep learning techniques, such as LSTM, BiLSTM etc and fine-tuning with pre-trained word embeddings (e.g. GloVe).
- Improved model accuracy by applying different BERT models.

MACHINE LEARNING TARINEE

Nov 2020 – Aug 2021
Bangalore, India

- Became proficient in a wide range of machine learning algorithms, including their underlying mathematical principles.
- Hands-on experience in end-to-end machine learning project development, from data acquisition to model deployment.
- Demonstrated expertise in using cloud platforms, such as Heroku, Streamlit, and AWS, to efficiently deploy machine learning models and solutions.

PROJECTS

Multi Purpose NLP Application, *NLPify* Nov 2022 – Nov 2022

- Developed a sophisticated AI platform that extracts various NLP features, including sentiment analysis, named entity recognition, and text summarization, from app review data.
- Performed extensive data preprocessing using techniques such as tokenization, lemmatization, and vectorization to transform the raw data into a machine-readable format.
- Created a multi-class classification model using logistic regression and a text vectorization pipeline to predict sentiment, and deployed the platform as a user-friendly web app using the Streamlit framework.

Political Spectrum Detection in Media News using with Deep-Learning and Shap Python Oct 2022 – Oct 2022

- Built a Political Spectrum Detection deep learning sequential model.
- Performed NLP based Tokenization, Lemmatization, vectorization and processed data using NeatText in Machine understandable language.
- Simplified code library Shap to built a theoretic approach to explain the output of sequential deep learning model.

Diabetes Prediction using Flask Dec 2021 – Jan 2022

- Conducted in-depth data analysis on the National Institute of Diabetes and Digestive and Kidney Diseases dataset
- Built multiple machine learning models, including Random Forest, logistic regression, KNN, and SVM, for the prediction of various onsets of type 2 diabetes
- Created a full-stack application using Flask and deployed it on Heroku for public access: https://diabetes-prediction-app02.herokuapp.com/

CERTIFICATES

- IBM Data Science Specialization
- Mathematics for machine learning
- Statistics Foundation - LinkedIn
- Machine Learning and Deep Learning Trainee Ineuron.ai
- Data Science
- Machine Learning with python

EDUCATION

Electronics and Communication, *Engineering SMVD University, Reasi (J&K)* Jul 2019 – Jul 2023
Jammu, India

ORGANISATIONS

A.I Circle

- Actively participated in an A.I circle, collaborating with team members on machine learning projects and mentoring junior members about machine learning and its potential applications

INTERESTS

Coding | Football | Sketching | Machine Learning | Deep Learning | Mathematics