SENTHAMARAI KANNAN S

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CARRER OBJECTIVE

- An aspiring Data Scientist with high motive and passionate to with data . Eager to contribute my skills and enthusiasm for data-driven problem solving to contribute to innovative projects at a forward-thinking organization.
- Well versed in statistical analysis, machine learning, and data visualization, gained through academic projects and internships. Proficient in Python and SQL, with hands-on experience in data cleaning, exploratory data analysis, and building predictive models and Gen Ai tech.
- Additionally, skilled in leadership, public speaking, problem-solving, and decision making.

PROFILE SUMMARY or AREA OF EXPERTISE

- Build predictive models and machine-learning algorithms **Supervised learning**, **Unsupervised learning** and **Gen AI technologies .**
- Skilled **in Natural Language Processing (NLP) , Text mining, word extraction, Tokenization , Lemmatization , Vectorization** .
- Good Knowledge on deep learning **Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN), and Recurrent Neural Networks (RNN).**
- Applied appropriate machine learning and Statistical models like **Logistic regression, Bayesian model, Naive Bayes, SVM** and various Ensemble models like **Random Forest , Decision Tree** , **Bagging and Boosting** algorithms .
- Having good experience in Statistics and Probability like **Normal Distribution, Hypothesis Testing** ,
- Efficient in pre-processing data including Data cleaning, **Correlation analysis, Imputation, Visualization, Feature Scaling and Dimensionality Reduction** techniques using Machine learning platforms like Python Data Science Packages **(Scikit-Learn, Pandas, NumPy).**
- Having good experience in query languages such as **SQL and MySQL** for Database .
- Experienced in data visualization techniques in **Power BI and Tableau , IBM Cognos Analytics.**
- Experienced in tuning models using **Grid Search, Randomized Grid Search**.

ACADEMIC PROFILE

- Bachelors of Engineering from Jeppiaar Engineering College, Chennai in 2024. – 8.6 CGPA
- XII: Terapanth Jain vidyalaya Matriculation Higher Secondary School, Chennai in 2020 – 83%
- X: Terapanth Jain vidyalaya Matriculation Higher Secondary School, Chennai in 2018 – 86%

PROJECTS

Ai Voice Assistant Chatbot using multimodal Llava and Whisper (Gen AI)
The main objective of the project is to analyse the image and the voice and give speech as output
Project Link - [Click here](#)
Description
- This project solves the issues of language barriers and assists people with visual disabilities by taking low-quality images and audio as input, and providing high-quality audio content in return.
- Developed with Microsoft's multimodal Llava 1.5 7B- for image and audio analysis and Open ai Whisper model for speech to text translation .
- Added with GTTS library (google text to speech translation) to convert the text into audio output.
- we have fine tuned the llm and implemented the project in gradio framework .

Employee Mental Health Prediction (KPMG- Skillenza Hackathon)
The project aims to analyze the mental health of the employee weather they need medical attention or not based on the given data.

Description
- Developed a comprehensive mental health assessment system for employees in the tech industry.
 Data source provided by KPMG .
- Performed in-depth EDA, feature engineering, missing value treatment, outlier detection, scaling, etc.
- Performed various machine learning techniques with fine tuning the parameters Techniques to accurately predict whether the employee needs treatment not and analyzing business loss and profits .

Resume Screening With NLP
The project aims to analyze the Resume of the students and classify them based on the job role and added ATS score to their resume .
Project Link - Click Here
Description
- Developed an automated system that can effectively filter resume pdf applications based on their resemblance to a given job description
- Preprocessed the data, Tokenization, stopwords, stemming , vectorization, implemented machine learning models and BERT classifier.
- Deployed the model using Gradio.

CERTIFICATIONS & ACADEMIC ENDEAVOURS

- Imarticus Learning – PG Data science and Data analytics
- Jobaaj – Power Bi
- HackerRank Gold Batch for SQL,Python
- NPTEL Machine learning in IITKGP
- GDSC – Content Writer Lead

AWARDS & ACCOLADES

- Awarded 3rd Prize in data science hackathon conducted by Skillenza in collaboration with KPMG.
- Participated in Paper Presentation on "Machine Learning" at St Joseph Institute of Technology.
- Participated in Smart India Hackathon 2022
- Published a paper titled "AI Voice Assistant Chatbot With Multimodal Llava and Whisper" in ICCET'24 Journal.
- Conducted workshop on "how to be a content writer" in Jeppiaar engineering college.

PERSONAL SKILLS

- Skilled in delivering clear, impactful presentations and data visualizations to effectively communicate complex analytical insights to diverse audiences.
- Strong communication skills – Develops and maintains **two-way communication**.
- **Collaborative**. Able to work well with a range of people both within and outside of the organization.
- Exhibited strong work ethic, organization and **time management** skills by successfully managing co-curricular leadership positions in School and College levels.

PERSONAL INFORMATION

Date of birth: : 01/01/2003
Languages known : English (R/W/S), Tamil (R/W/S), Hindi (R/W/S)
Hobbies   :Technical Content writing, Articles