Ranjith Kumar T

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Result-oriented tech aspirant pursuing a bachelor's degree in information technology with experience in solving real-life problems with innovative ideas. Seeking an opportunity to enrich my technical and management skills.

EDUCATION

BTech Information Technology, *PSG College of Technology* — 2019 – present
8.5 CGPA — Coimbatore, Tamilnadu, India

12th standard, *K.V.S. Matriculation Higher Secondary School* — 2019
85% — Virudhunagar, Tamilnadu, India

10th standard, *K.V.S. English Medium School* — 2017
98% — Virudhunagar, Tamilnadu, India

PROJECTS

Audio Dataset Generation
- Built a custom audio dataset generator using **PyTorch** torchaudio library**.**
- Generates audio records with various effects like **distance**, **pitch,** and **noise** variations**.**
- Denoising models trained using this dataset have improved efficiency in **reducing noise** and showed **high SNR value.**

Amazon Price Tracker
- Developed a price tracker using **NodeJs**, **Express,** and **MongoDB** to keep track of all price changes.
- Tracker scrapes data from the web using the **Nightmare** library.
- Mails the user when there is a **drop** in price using **Nodemailer.**

Discord Quiz bot
- Developed 3 quiz bots using the **discord.py library** and a few other Data structures like **Dictionary, and Sorted Containers.**
- It runs the **end-to-end** quiz event for inter-college events like cipher quizzes, and riddles.
- This includes splitting the participants into **groups**, **grading answers, evaluating the scores** of each team, and **generating scoresheets** in **CSV** format

Clustering geolocation data of taxis
- Created a model to cluster and visualize geolocation data of taxis in python using **Scikit-learn** and **Folium** libraries, which can be used to solve real-world business problems like **location optimization**.
- The datasets are cleaned and clustered using **K-means**, **DBSCAN**, and **HDBSCAN** algorithms.
- Using the clustered data, the **optimal location** of the taxi service center is determined with a **silhouette score of 0.80**.

Dynamic link for rerouting URLs
- Built a **Node server** that collects meet links of the various events like webinars, gmeets and reroutes the user to correct the link according to the **user's schedule**.
- Used **Luxon js** library to handle operations with **date**, **time**, and **timezones**.
- Used to manage meets and webinars from a **single URL**.

SKILLS

Python *(ML, Automation, Pandas)* | **Javascript** *(MERN stack)* | **C** | **SQL** | **Excel**

Problem solving | **Java**

AREA OF INTEREST

Operating System

Machine Learning, *Supervised & Unsupervised learning*

Data structures

CERTIFICATES

Business Analytics for decision making
University of Colorado | Jul'20

Sentiment Analysis with Tensorflow
Rhyme Coursera | May'20

Clustering geo location data intelligently in python
Project Network Coursera | Jun'20

ORGANISATIONS

Information Technology Association, *Joint Secretary*
- Lead a team of 5 people to understand students' needs and designed events and webinars accordingly.
- Organized a conference on AI in which over 200 international participants partook.
- Conducted webinars and events about newer techs in the Inter-college event Kriya.

Global Leader's Forum, *Sponsorship Team member*
- Negotiated with multiple enterprises for sponsorship.
- Worked with the design team to make professional posters and flyers.

Eclub, *Event Team member*
- Came up with interactive new events to help students develop entrepreneurship skills.
- Conducted a deciphering flag fight event for ENEXT (inter-college event).

IV Coordinator
- Organized a 3-day Industrial Visit to Bangalore by managing expenses with buses, hotels, etc. effectively without compromising on quality.
- Communicated with multiple industries for a visit to learn more about their technologies and applications.

Class representative
- Helped students to bring forward their opinions, concerns, and ideas regarding their academic experience.