Vellaturi Venkata Sai Kowsik

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Education

Indian Institute of Information Technology(IIIT), Kottayam **August 2019 – May 2023**
Bachelor of Technology(Hons) in Computer Science , CGPA - 9.34 / 10 *Kottayam, Kerala*

Sri Chaitanya Junior College **June 2017 – April 2019**
Class 12, CGPA - 9.69 /10 *Vijayawada, Andhra Pradesh*

Sri Chaitanya High School **May 2016 – April 2017**
Class 10, CGPA - 10.0 /10 *Ongole, Andhra Pradesh*

Professional Experience

Jio Platforms Limited - *Junior Data Scientist :* **October 2023 – Present**
CVSmart

* Developed Flask API for Resume Parsing using **SpaCy** model's **Named Entity Recognition**, fine-tuned on custom dataset, to extract information from base64-encoded PDF, DOC, and DOCX documents. It is implemented by Company's Careers Portal, achieving 100,000 successful hits.
* Developed a System for generating a summary purely from extracted resume text, by training **BART** model on custom dataset by using **PyTorch**.
* Achieved an 85% reduction in human effort by optimizing processes
* Successfully mapped opportunities to skills with 90% accuracy, eliminating the need for manual intervention entirely.
* Made use of **Machine Learning** techniques and **Elastic Search Database** for recommendation system.

Projects

Analysis of Social media activity to detect bias using natural language processing **Sept'22 – Apr '23**

- **Led a team** in developing a sentiment analysis system using **Natural Language Processing** on a dataset containing more than **1 Million** tweets related to multiple users
- Introduced a concept called **Multi Aspect Sentiment Analysis** using which were able to find the sentiments of multiple topics within the same tweet
- Developed a system that performs data modelling, Sentiment prediction, and demonstrated effect of each topic on users. Used **Pandas, numpy, matplotlib, nltk, Spacy, Gensim** libraries
- Achieved **accuracy of 85%** while predicting sentiments of the new user based on the alreading existing insights
- Visit our **Documentation** and **Code (Google Colab)** for more details

ML and Genetic Algorithm based Player Selection for Cricket Team Composition **Aug'22 – Apr'23**

- Developed an automated system utilizing **Machine learning** and **Genetic Algorithm** to predict the optimal playing eleven for cricket matches based on player pools and specific ground conditions.
- Performed web scraping using **Python libraries** like **Beautiful Soup** and **Requests**
- Demonstrated the **practical value** of the system by accurately predicting optimal playing elevens, leading to improved strategic decisions in actual cricket matches, using **Python, scikit-learn, and Genetic Algorithm** frameworks
- Made use of **Unsupervised learning** algorithms such as **K-means Clustering** for effective removal of unwanted data i.e. outliers
- Achieved an **exceptional accuracy** level, with a match rate of **10 out of 11 players** in predicting playing elevens.
- For more details visit **Documentation** and **Code (Google Colab)**

Technical Skills

Languages / Frameworks: C,R programming, Cpp, Python, ElasticSearch , PyTorch, TensorFlow
Libraries & Tools: Pandas, Numpy, nltk, Matplotlib, Sklearn, requests, gensim, Spacy, VS Code, Eclipse, Github

Publications

- Kowsik, V.V.S., Yashwanth, L., Harish, S. et al. Sentiment analysis of twitter data to detect and predict political leniency using natural language processing. J Intell Inf Syst (2024). https://doi.org/10.1007/s10844-024-00842-3

Achievements

- Secured **22nd** Rank at 2019 **India Chennai Provincial Contest**.
- Secured All India Rank of **890** and global rank of **3281** at **Google Hash code contest 2021.**