CHARAN KUMAR

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Education

Amrita Vishwa Vidyapeetham	**Sep 2020 – June 2024**
Bachelor of Technology in Computer Science	*Coimbatore, TamilNadu*

Sri Chaitanya College of Education	**July 2018 – June 2020**
MPC	*Vijayawada, AndhraPradesh*

Sri Chaitanya School	**June 2018**
MPC	*Vijayawada, AndhraPradesh*

Experience

[24]7.ai — January 2024 – June 2020
Software Engineer Intern — Bengaluru, Karnataka
- Improved the chat management system by adding new fields (client id and account id) alongside the existing chat name field, Developed an API to fetch chatflows based on these parameters.
- Identified and resolved critical SonarQube vulnerabilities, enhancing the security and stability of the application.
- Developed unit test cases for critical components of the application using Jest,Achieved high code coverage by writing tests that covered various edge cases and scenarios.

Projects

Cross Regional Recipe Adaptation | *Python,SNA,Gephi,NLP,GNN* — **May 2024**
- Created a versatile recipe adaptation system that tailors recipes from Region X to meet the unique culinary preferences and ingredients of Region Y.
- Implemented various centrality measures to analyze ingredient networks.
- Conducted similarity analysis using the Jaccard similarity index to compare ingredient compounds,applied the Weisfeiler-Lehman isomorphism test to evaluate graph similarity and structure.
- Developed and trained a Graph Convolutional Network (GCN) model to predict relationships between ingredients and compounds,enhanced the model's performance by leveraging the vanilla graph autoencoder for unsupervised learning and feature extraction.

Faculty Dashboard System | *Jira, StarUML, React, PHP* — **June 2023**
- Developed an online web application using React, PHP providing faculty with easy access to course information, student data, and timetables.
- Leveraged Jira for project management and StarUML for designing system architecture and diagrams, ensuring clear and efficient development workflows.

Social Media Ads.Impact Analysis | *python,Machine Learning* — **Jan 2023**
- Analyzed the effectiveness of advertisements on social media platforms to determine their attention-grabbing potential and overall impact.
- Conducted preprocessing and feature engineering, removed outliers, and trained models using logistic regression, decision tree classifiers, KNN, Naive Bayes, and SVM. Evaluated model accuracy before and after scaling.
- Combined models using basic ensembling and advanced ensembling methods to improve model accuracy and generate more reliable predictions on social media advertisement impact.

Electricity Bill Payment System | *MYSQL,HTML,CSS,StarUML,PHP* — **January 2022**
- Developed an online web application for electricity bill payment system which helps the clients to keep track of their electricity consumption and billings.
- Created and normalized multiple tables to 1NF, 2NF, 3NF, and BCNF ensuring efficient data storage and retrieval and developed schema and ER diagrams for clear representation of database relationships.
- Enabled admins to generate monthly bills based on units consumed, with real-time notifications and announcements.

Technical Skills

Languages: Python,C, HTML/CSS, JavaScript, SQL
Developer Tools: VS Code,GitHub, Eclipse,SonarQube,Docker

Extracurricular

- Coordinated Gokulashtami event conducted by Amrita Vishwa Vidyapeetham.
- Participated in NSS camps and contributed to various community service initiatives such as Organizing and participating in clean-up drives,conducting tree planting activities to promote environmental sustainability.