Vedang Barhate

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EDUCATION

ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO, IL   December 2022
Master of Computer Science   **GPA : 3.7 / 4.0.**
Relevant Courses: Big Data Technologies, Machine Learning, Mobile Application Development, Advanced Data Mining,
Advanced Database Organization, Artificial Intelligence

SKILLS

PROGRAMMING LANGUAGES: Python, Java, JavaScript, Css, Html, C, C++.
FRAMEWORKS AND TOOLS: ReactJs , Flask, AWS, GCP, Redux, Android, Postman, Git, Github, Restful Api, Charts.js,
Recharts, Bootstrap, 3rd party API's, Firebase, Tailwind-Css, Material UI(UI framework).
DATABASE: SQL, ,NOSQL, Sqlite, PostgreSQL, Hive, Spark, MongoDB, MYSQL.

PROFESSIONAL EXPERIENCE

Full Stack Web Developer   2019 - 2020
Shaili Pharma Chem ltd. -   Ankleshwar, Gujarat
- Implemented and maintained inventory tracking systems for improved accuracy using ReactJs and Flask.
- Developed complex stored procedures using the Flask-SqlAlchemy library in Python.
- Designed RESTful API endpoints in Flask so the server can interact with the frontend.
- Designed pages and RESTful routes, made web requests to retrieve data, formatted and styled results, incorporated themes by leveraging Material UI.
- Increased material flow on the job floor by 27% within 4 months.

Data Analyst Intern   2018 - 2019
Thomson Reuters -   Vadodara, Gujarat
- Developed Python script with Selenium webdriver tool to automate data extraction process from website.
- Extracted meaning from data collected through the script and created dashboards in MS Excel.
- Debugged script on a weekly basis to track any changes in the elements of the website.
- Automation reduced manual efforts by 10 man days every month.

PROJECTS

Expense Tracking Application   2022 - 2022
- Constructed an Expense tracker application to keep track of day-to-day expenses using ReactJs.
- Devised JSON web token(JWT) based authentication for application with the help of Flask-JWT-extended library.
- Built an Api server with help of flask in python to store user data and its expense records.
- Created expense charts in ReactJs to identify relevant data trends and picture users spending habits over time.
- Hosted backend i.e Flask server on DigitalOcean platform with the help of github repo and gunicorn library.
- Deployed ReactJs frontend application on the github with help of github-pages.

Time-series Forecasting with Microservice Architecture   2022 - 2022
- Pulled Github repositories data(issues, forks ,branches, commits, release) leveraging the Github repo api on the main flask server.
- Formed LSTM, prophet, Statsmodels timeseries forecasting model in python to generate github repo (issues, forks , commits, release) forecasts.
- Built 3 distinct flask servers hosting 3 different time-forecasting models i.e LSTM, FB prophet and Statsmodels.
- Designed primary server's interface to allow users to communicate with 3 time-forecasting models to generate forecasts.
- Devised charts using Re-Charts library in ReactJs to better visualize the data received form the Flask Application.

Effect of Noise on Sentiment Analysis using SVM and BERT   2021 - 2021
- Formulated baseline for SVM and BERT model using ideal training and test data to compare it with the result of noisy dataset.
- Constructed sample noisy datasets of different size from "Disneyland Reviews" "Amazon Reviews" containing equal labels of positive, negative and neutral.
- Analyzed SVM and BERT classifier's performance for various sample sizes and the presence of noise in the data.
- Visualized the result of SVM and BERT models so it can be compared with the baseline results.

PUBLICATIONS

- "DIGITIZATION IN MEDICAL CONSULTANCY", International Journal of Emerging Technologies and Innovative Research (www.jetir.org), ISSN:2349-5162, Vol.6, Issue 5, page no.20-22, May - 2019.Available: http://www.jetir.org/papers/JETIRCQ06004.pdf.

LEADERSHIP

- Held weekly office hours to advise/assist students with assignments and to support/guide students with projects.
- Mentored 78 Graduate and 68 Undergraduate students with one-on-one communication for understanding of DBMS.