Kartik Chaurasiya

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EDUCATION:

GEORGIA STATE UNIVERSITY
Masters Data Science (August 2022 - Present) **GPA**: 4.05
Relevant Coursework: Big Data, Data Mining, Deep Learning, Database Systems.

UNIVERSITY OF MUMBAI
Bachelor of Engineering in Computer Science (July 2017 - May 2021) **GPA**: 3.62
Relevant Coursework: Data Structures, Natural Language Processing, Databases, Web Technologie, Object Oriented Programming.

SKILLS:

Programming Languages: Python, PHP
Technologies: HTML5, CSS3, BootStrap4, SQL, Postgres, REST API, POSTMAN, Firebase, Flask
Miscellaneous: OOPS, Design Patterns, Git, HTTPS, Android Development, Web Development, Agile Methodology, Scrum, AWS

EXPERIENCE:

GEORGIA STATE UNIVERSITY
Graduate Research Assistant, Jan 2023 – Present
- Implemented methods to retrieve images, analyse and visualize from the GONG satellite network.
- Created APIs and a Postgres database for the Gong Alpha viewer's backend, to be deployed on National Solar Observatory (NSO) infrastructure to serve the community of researchers.
- Used Postgres for database, FastAPI for API building for backend development.

Kredence Digital Resources
Software Engineer, Nov 2021 – May 2022
- Utilized cPanel Infrastructure, MySQL database, and Laravel for backend development
- Developed MVC Application following Software Development Life Cycle using Full Stack Technologies.
- Gained hands-on experience with PHP, SQL, Git, REST APIs, code reviews and tech principles.
- Developed dynamic web pages using React, and Responsive Web Design.

Vistaar Digital Communications
Data Analytics Intern, Dec 2020 – Jan 2021
- Developed interactive and visually appealing dashboards to present data insights using tools like Tableau and Power BI.
- Utilized Python and SQL to retrieve server data, clean and process user-provided data.

PROJECTS:

EMOTUNE - EMOTION-BASED MUSIC PLAYER [HUMAN EMOTION CLASSIFIER][Link]
- Developed a music player mobile App that generates playlists by reading the emotions of the user.
- Built the app using Flutter SDK and used Firebase for the backend.
- Built an image-processing CNN model using Python and ML libraries like TensorFlow and Keras.
- Achieved an accuracy of 67% in identifying emotions and successfully generated playlists accordingly.

REAL-TIME TRAFFIC SIGN DETECTION AND CLASSIFICATION[Link]
- Developed a live video traffic sign classifier using machine learning algorithms.
- Successfully Build, Trained, and forecasted image data using YOLO V8 and Resnet models.

TODO API [Link]
- Developed FastAPI-based RESTful APIs for seamless user account creation, to-do management, and persistent sessions.
- Implemented secure authentication with token-based authorization for data protection within the todo application.
- Utilized PostgreSQL databases for efficient storage, retrieval, and optimal performance in the todo application.

PUBLICATIONS:

Chaurasiya, K. J., Chirayath, J. J., Naik, V. M., Dabre K. (May 2021). Emotion-based Music Player. International Journal of Research and Analytical Reviews, Vol 8 Issue 2, [IJRAR_233429]. https://www.ijrar.org/papers/IJRAR21B1343.pdf