




KARTIK J CHAURASIYA


SOFTWARE ENGINEER


CONTACT


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 3365, Valley Brook place, Decatur, Georgia-30033

SKILLS

Python
Machine Learning
Deep learning
API Development
Web Development
SQL - DataBase Management
PHP
Flutter
GitHub

EDUCATION

Master's in Data Science and Analytics

Georgia State University

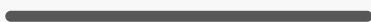
2022-2023 -- 4.05

Bachelor's in Computer Science

Universal College of Engineering

2017-2021 -- 8.84

LANGUAGES

English 

Hindi 

PROFILE

Aspiring data scientist with a strong background in mathematics and computer science, along with experience in data analysis and machine learning. Skilled in programming languages such as Python, R, and SQL. Proficient in data visualization tools like Tableau and Matplotlib. Capable of working with large and complex data sets, and applying statistical analysis to extract meaningful insights. I am passionate about solving real-world problems with data and making meaningful decisions with it.

WORK EXPERIENCE

Graduate Research Assistant

Georgia State University, Georgia

1/2023 - Present

- A study of filaments and solar flare activities was conducted in order to detect the occurrence of solar flares.
- Developed methods for retrieving images from the GONG satellite network.
- Analyzed the sampling data from each satellite and created visualizations.
- Carried out annotations on satellite images and information retrieval from the v7 annotation web page utilizing APIs.

Software Engineer

Kredence Digital Resources Pvt. Ltd. • Mumbai, Maharashtra

11/2021 - 05/2022

- Built a project and resource management website using Laravel with PHP for the backend and React for the front end.
- Competent in utilizing databases and caching systems for performance optimization and improved user experience.
- Adept at developing and deploying RESTful APIs and microservices.
- Strong understanding of software engineering best practices such as continuous integration, testing, and security.
- Implemented an MYSQL-based database for the project, optimized for fast data retrieval and analytics.

Data Analytics Intern

Vistaar Digital Communications Pvt. Ltd. • Mumbai, Maharashtra

12/2020 - 01/2021

- Built visualizations using visualization tools such as Tableau and Matplotlib to communicate insights from data.
- Adept at working with databases and have experience in data manipulation and extraction.
- Detected outliers and build models using programming languages such as R and Python.
- Hands-on experience with Python libraries such as Pandas, NumPy, and Scikit-learn.

CERTIFICATIONS

100 Days of Code, The Complete Python Pro Bootcamp for 2021, Udemy, Jul 2021

Data Analysis with Python: Zero to Pandas, Jovian, Nov 2020

Introduction to Programming using JavaScript Microsoft, Microsoft Certifications, Feb 2020

Deep Learning AI by Andrew Ng, Coursera, Jan 2020

Machine Learning, Udemy, Dec 2019

PROJECTS

Emotune - Emotion-based music player [Human Emotion Classifier]

- Developed a music player mobile App that generates playlists by reading the emotions of the user from their selfie; 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; Performed image processing using OpenCV on Fer 2013 dataset with 35887 images and labels sourced from Kaggle
- Achieved an accuracy of 67% in identifying emotions and successfully generated playlists accordingly.

Real-time Traffic Sign Detection and Classification

- I developed a live video traffic sign classifier using machine learning algorithms for my Data Mining coursework.
- Traffic signs were detected and classified in real-time to improve road safety.
- My system detected and classified traffic signs in real-time video footage with 78% accuracy using deep learning models trained on a diverse set of images.

PUBLICATION

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>
