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Education

Abasaheb Garware College, Pune

Bachelor of Science in Statistics

May 2022

Pune, India

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Machine Learning
- Software Methodology
- Database Management
- System Design
- Statistics

Experience

Yhworks

April 2024 – July 2024

Machine Learning Intern

Remote

- Built a object detection system using Python, YOLO(CNN-based), and OpenCV, achieving a precision rate of 95% , and enhanced it with a color detection feature using k-means clustering to identify dominant colors for each detected object.
- Utilized Python's OpenCV for image preprocessing, extracting pixel RGB values to identify and isolate dominant colors, resulting in a more than 50% enhancement in processing speed.
- Integrated the system into a Django web application for detecting objects from images and videos, reducing processing time by 40%.
- Programmed HTML, CSS, and JavaScript for frontend integration, enabling users to easily upload images and view results with filters such as "Show Only Objects" and "Show Colors".

Projects

Tryyourclothes.com | *Python, YOLO, OpenCV, React*

July 2024

- Implementing a virtual try-on feature using React, Django, and Python, leveraging the YOLO deep learning model and DeepFashion dataset to enhance user engagement and shopping experience. .
- Developing a dynamic and responsive UI in React for instant previews of clothing items.
- Integrated the system into a Django web application for detecting user images. .
- Implementing a 3D virtual try-on feature that enables users to visualize how clothing items will fit and look on their photos, enhancing the online shopping experience.

Wormyreads.com | *Python, Django, Rest Framework, PostgreSQL*

Feb 2024

- Developed a Full-Stack Django Application with Review, Wishlist, and User Authentication features for book enthusiasts.
- Designed a web application using Python, Django, and related technologies, enhancing user engagement and platform functionality.
- Created RESTful web services and APIs, improving application capabilities and streamlining interactions.
- Redesigned the user interface using HTML, CSS, and JavaScript, creating a responsive and intuitive design for seamless user interaction.

Statistical Language Insights | *R-Software, Box-Cox Method, Fisher's Exact Test*

June 2023

- Emphasizing the practical application of statistical analysis in assessing the precision of five translation platforms (Google, Microsoft Bing, Yandex, Lingnavex, Translateking) across three distinct languages (English, Marathi, Hindi).
- A comprehensive dataset of 6000 sentences was meticulously curated using a Random Sentence Generator, encompassing a discerning assessment of 10 distinct categories of errors.
- Employed statistical methodologies including the Box-Cox Method, Completely Randomized Design and Fisher's Exact Text.

Technical Skills

Languages: Python, MySQL, HTML/CSS, Javascript, SQL

Frameworks: Django, OpenCV, RestAPI, Numpy, Flask, Pandas

DevOps Tools: Docker, Git, GitHub, Gunicorn, Whitenoise

Contributions to Open-Source Projects

- Apple Inc. - WebKit.
- Microsoft - Data Science for Beginners
- Facebook - IOS-SDK