ADITYA MAKKENA

AI-ML INTERN

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GitHub | **Linkedin**

EDUCATION

Parul University   Vadodara, Gujarat
Computer Science Bachelors   June 2022 - March 2026
CGPA: 7.2

EXPERIENCE

Accenture North America | **Data Analytics and Visualization Job Simulation**   Virtual | August 2024 - September 2024

    * Completed a simulation focused on advising a social media client
as a Data Analyst at Accenture
    * Cleaned, modelled and analyzed large datasets of 132 to uncover insights into content
trends to inform strategic decisions
    * Prepared a PowerPoint deck and video presentation to communicate key insights
for the client and internal stakeholders

JP MORGAN CHASE & Co | **Software Engineering Simulation**   Virtual | May 2023 - June 2023

    * Set up a local dev environment by downloading the necessary files, tools and dependencies.
    * Fixed broken files in the repository to make web application output fully functional.
    * Used JPMorgan Chases open source library called Perspective to generate a live graph that displays a data feed in a clear and visually appealing way for traders to monitor.

SKILLS

Programming Languages:	Python, Java, Parallel Programing, C
Libraries/Frameworks:	React, Typescript, Pandas, Scikit-Learn, Tensorflow, Matplotlib, Keras, OpenCV, RoboFlow, Pillow, YOLOv8
Tools / Platforms:	Git, VS code, linux
Databases:	MongoDB, AWS, GCP, MySQL

PROJECTS / OPEN-SOURCE

SESUME -Traffic Analysis | **Link** *Python, Shell, YOLOV8, OpenCV, Ultralytics, Supervision, Byte Track, AWS*

- Utilizing state-of-the-art algorithms, sesume delivers robust and accurate online Traffic management and analysis
&Surveillance and security
- This feature is crucial for applications that require real-time monitoring and analysis of multiple objects.
- performs detailed traffic flow analysis using YOLOv8, a highly efficient object-detection method.
- Applications:
*Autonomous vehicle navigation
*Crowd monitoring and control

Football Match Analysis | **Link**   *Python 3.x, ultralytics, supervision, OpenCV, NumPy, Matplotlib, Pandas, Jupyter Notebook*

- Developed an AI-based system to detect and track players, referees, and footballs in video footage using the YOLO object detection model.
- Applied perspective transformation & enabling precise calculation of player movement in meters.
- Addressed real-world challenges in sports analytics, making the project suitable for both beginners and experienced machine learning engineers.

Colorization-Master | **Link**   *Computer Vision, Deep Learning, TensorFlow, Keras, Convolutional Neural Networks*

- Developed an automatic colorization functionality for images in real-time.
- Implemented a user-guided image colorization method using learned deep priors.
- Applied convolutional neural networks to learn the mapping from grayscale to color images.
- Utilized user input to guide the colorization process, ensuring accurate and aesthetically pleasing results.
- Leveraged deep learning techniques to achieve high-quality colorization results.
- Demonstrated the effectiveness of the approach with various examples and evaluations.

CERTIFICATIONS

- Introducing Generative AI with AWS - **Udacity, AWS**
- Career Essentials by Microsoft and LinkedIn - **Microsoft, LinkedIn**
- Ethical Hacker Certification - **CISCO Networking Academy**
- Python Essentials-1 - **CISCO Networking Academy, Python Institute (OpenEDG)**
- Python Essentials-2 - **CISCO Networking Academy, Python Institute (OpenEDG)**