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SUMMARY

A software engineer with 3+ years of experience in Python development, specializing in deploying and optimizing machine learning models, computer vision, and data science to real-world problems to cater to business needs.

EDUCATION

Columbus State University (Georgia, USA) August 2022 - Dec 2023
Master of Science in Computer Science (Artificial Intelligence and Machine Learning) **GPA 4.00 / 4.00**
L. D. College of Engineering (Gujarat, India) July 2016 - July 2020
Bachelor of Engineering in Electronics and Communication **GPA 8.38 / 10.00**

SKILLS

Technical: Python, Java, R, SQL, SAS, Bash, C++, YOLO, OpenCV, PyTorch, NumPy, PySpark, Hadoop
Tools: Pycharm, RStudio, Git, Docker, Airflow, Jira, Visual Studio, Dbeaver, Hue, Confluence
Others: Advanced Excel, Databricks, Linux, Azure, AWS, GCP, Pandas, scikit-learn, ggplot2, Tableau

WORK EXPERIENCE

Graduate Research Assistant, Columbus State University (Georgia, USA) September 2022 - Dec 2023

- Developed a cutting-edge surveillance system with **real-time** object classification and tracking capabilities.
- Executed data collection for optical and infrared imagery, conducted data cleaning and performed label **annotation**. Trained a YOLOv8 **computer vision** model, achieving a mean Average Precision (mAP) score of **0.84.**
- Managed model **deployment** and improved GPU computing efficiency via **CUDA** optimization for low-power usage.
- Built a Python **API** using JSON interface for seamless transmission of system responses.

Application Development Associate, Accenture (Maharastra, India) January 2021 - June 2022

- Created & implemented RPA-based web and **database automation** testing in an agile work environment.
- Utilized **DevOps** methodologies, I automated data retrieval from Hadoop and AWS Athena within a **Docker** environment, seamlessly integrating data validation with Jenkins for efficient **CI/CD** pipelines.
- Managed large datasets on cloud platforms, retrieved data via APIs, handled pharmaceutical inventory data, and used ETL **Airflow** tools for report generation on automated test results.
- Independently developed script validation tool for non-tech team, saving over **100 hours** of weekly manual effort.
- Trained NLP model to understand the requirements and validate project fulfillment from compliance documents.

PROJECT

Multi-Object Tacker Surveillance System (Georgia, USA) Academic Project - December 2023

- Engineered a DeepSORT-based multi-object tracking system, enhancing accuracy by 4% and precision by 6%.

Self-Driving Raspberry Pi Car - Computer Vision and IoT (**Georgia, USA**) Academic Project - December 2022

- Employed advanced machine learning algorithms in a **Linux** environment using **TPU** to create an **autonomous** navigation system for a self-driving car prototype.

RF Buddy - Script Scanning Tool (**Maharastra, India**) Accenture **Innovation** Project - March 2022

- Built a script scanning desktop application using **Tkinter** to validate engineers are following the client requirement; distributed the executable version to the 120 engineers with continuous usage track into the database using **pyodbc**.

Visualizing Citi Bike Trips with Tableau (Gujarat, India) Coursera Certified Project - October 2020

- Designed and disseminated insightful **data visualizations** utilizing Tableau dashboards.

BirdStrike Prevention System - Computer Vision and IoT (**Gujarat, India**) Academic Project - June 2019

- Deployed Caffe and **OpenCV** for real-time bird detection, and interfaced with an Arduino to prevent bird hazards.

CERTIFICATIONS

Machine Learning (Stanford University), **R-Programming** (John Hopkins University), **Deep Learning** Specialization (Stanford University), **Data Science** (HarvardX), Analyzing **Big Data** with SQL (Cloudera), **AWS** Fundamentals (Coursera), **Tableau** (Coursera), **GCP**: Creating BigQuery Datasets and Visualizing Insights (Coursera).