Jemin Kachhadiya Software Engineer
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SUMMARY

A software engineer with 2.5+ years of professional experience with Python development and applying machine learning and data science principles to real-world problems to cater to business needs.

EDUCATION

Columbus State University, GA 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, India July 2016 - July 2020
Bachelor of Engineering in Electronics and Communication **GPA 8.38 / 10.00**

SKILLS

Languages/Frameworks: Python, R, SAS, Java, C++, Git, YOLO, PyTorch, Caffe, Spark, Hadoop, Matlab
Databases: SQL Server, Oracle, Impala, Hive, MySQL, PostgreSQL, Athena, MongoDB
Tools: Pycharm, RStudio, Jupyter, Visual Studio, Dbeaver, Hue, Jira, Confluence
Others: OpenCV, Linux, Pandas, NumPy, ggplot2, Seaborn, Tableau, GCP, Advanced Excel

WORK EXPERIENCE

Graduate Research Assistant, Columbus State University (Computer Vision) September 2022 - Present

- Engineered an advanced remote surveillance system equipped with **real-time** object detection and classification.
- Optimized system architecture for enhanced power efficiency while harnessing **GPU** acceleration for superior computing performance using **YOLOv8**.
- Developed a **JSON** API interface for seamless transmission of system responses.

Founder, Artemist Enterprise (Ahmedabad, India) October, 2020 - September, 2022

- Built a business to sell furniture goods on the e-commerce platforms namely Amazon, Flipkart, and Meesho with a yearly turnover of $500,000. Lead all operations including finance with other 5 employees.
- Automated tax filing to save 30 hours of manual effort, and managed the business data in various formats to generate business insights with pivot tables and charts.

Application Development Associate, Accenture January 2021 - June 2022

- Created & implemented RPA-based web and **database automation** testing in an agile work environment.
- Automated data retrieval from Hadoop and AWS Athena platforms using Robot Framework in a **Docker** environment. Conducted automated data validation through SQL queries integrated with Jenkins **CI/CD** pipelines.
- Independently developed a tool to streamline script validation, saving over **100 hours** of manual effort weekly.
- Built a model to understand project requirements and validate project fulfillment from document data.

PROJECT

Self-Driving Raspberry Pi Car - Computer Vision Prototype 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. The system was adept at real-time object detection, such as lane lines, traffic, and pedestrians.

RF Buddy - Script Scanning Tool Accenture **Innovation** Project - March 2022

- Saved 100 hours of effort per week by developing a script scanning tool built as a desktop application in **Python** using **Tkinter** to validate engineers are following the client requirement; distributed the executable version to the 120 engineers with the track of results data into the database using **pyodbc**.

Visualizing Citi Bike Trips with Tableau Coursera Certified Project - October 2020

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

BirdStrike Prevention System - Computer Vision and **IoT**-based Project Academic Project - June 2020

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

CERTIFICATIONS

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