Jemin Kachhadiya Software Engineer
Phone: 706-315-7519
LinkedIn: www.linkedin.com/in/jemin-kachhadiya-087212143/
Email: jemin.b.kachhadiya@gmail.com
Github: github.com/jeminkachhadiya
Portfolio: jeminkachhadiya.github.io

SUMMARY

Dedicated Software Engineer with 2.5+ years of hands-on experience in Python and deep learning frameworks, leveraging computer vision models for actionable business solutions. Adept at evaluating model accuracy, staying abreast of evolving technologies, and delivering insights from complex datasets.

EDUCATION

Columbus State University, GA August 2022 - Present
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, Java, C++, PyTorch, Caffe, TensorFlow-Keras, Spark, Git
Databases: SQL Server, Oracle, Hive, MySQL, PostgreSQL, Athena, MongoDB
Tools: Unix/Linux, Docker, Jupyter, Visual Studio, RStudio, Git
Computer Vision: Object detection, Classification, YOLOv8, Faster-RCNN, ResNet, MobileNet-SSD

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**.
- Crafted a JSON **API** interface, ensuring seamless data transmission and integration.

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 Linux **Docker** environment. Conducted automated data validation through queries integrated with Jenkins **CI/CD** pipelines.
- Independently **developed** a Python-based tool to streamline script validation, achieving a weekly reduction of over 100 manual hours and emphasizing **algorithm** optimization and real-world application.
- Built model leveraging various machine learning algorithms to understand project requirements and ensure accurate project fulfillment.

PROJECT

Self-Driving Raspberry Pi Car - Computer Vision Prototype Academic Project - December 2022

- Employed Python and advanced machine learning algorithms in a **Linux** environment 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

- Developed a Python-based script scanning tool using **Tkinter**, reducing manual effort by **100** hours weekly, and ensuring engineers adhere to client requirements. Achieved consistent result tracking via database integration.

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).