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

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, Docker, 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.

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 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.
- Skills utilized: Python, SQL, Databases, AWS, Automation, API, Java, Jenkins, ALM, Docker, Tkinter, Flask, Jira.

PROJECT

Self-Driving Raspberry Pi Car - Computer Vision and IoT 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 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, and interfaced with an Arduino device for signal processing 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).

- Participated in **ACM** Mid-Southeast conference to represent my findings on **object tracking** deep sort algorithm.