

# Jemin Kachhadiya Software Engineer

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## SUMMARY

A software engineer with 1.5+ years of professional experience with python and applying machine learning and data science principles to real-world problems to cater to business needs. Machine Learning and Data Science Enthusiast.

## EDUCATION

### Columbus State University, GA

Master of Science in Computer Science (Artificial Intelligence and Machine Learning)

August 2022 - Present

GPA 4.00 / 4.00

### L. D. College of Engineering, India

Bachelor of Engineering in Electronics and Communication

July 2016 - June 2020

GPA 8.38 / 10.00

## SKILLS

Languages/Frameworks: Python, R, Java, Git, YOLO, PyTorch, Matlab, Hadoop, Flask, Selenium

Databases: SQL Server, Oracle, Impala, Hive, MySQL, PostgreSQL, Presto, SAP HANA, Athena

Tools: Pycharm, RStudio, Visual Studio, Jupyter, Dbeaver, Hue, eclipse, ALM, Jira, Photoshop

Others: Docker, Jenkins, Linux, pandas, dplyr, NumPy, OpenCV, scikit-learn, AWS, GCP, Tableau, Excel

## WORK EXPERIENCE

### Graduate Research Assistant, Columbus State University

September 2022 - Present

- Working on a remote surveillance system, building the model to detect and differentiate civilians and military personnel in real-time, with the **YOLO** framework developing an accurate and high-speed model with GPU.
- Identifying and resolving problems through root cause analysis and research. Working on data collection, annotation, cleaning, Image processing, and training neural networks with PyTorch dependencies.

### Application Development Associate, Accenture

January 2021 - June 2022

- Created & implemented **RPA**-based web and database automation testing, and test script.
- Automated the process of fetching data mounted on Hadoop and AWS **Athena** platforms using Robot Framework and performed data validation with automated queries to remove redundancies through Jenkins **CI/CD** pipelines.
- Independently, Built a tool with Tkinter to validate the scripts as per client's requirement to save 100 hours of work.
- Worked on a model using NLTK which can understand the requisite from documents & validate project's fulfillment.
- Skills utilized: Python, SQL, Automation, pyodbc, Java, NLTK, Jenkins, ALM, Docker, Tkinter, Flask, GCP, Data Analysis, Product development, Jira, Bitbucket.

## PROJECTS

### Self-Driving Raspberry Pi Car - Computer Vision

Academic Project - December 2022

- Developed a Car with **TPU** to navigate **autonomously** on a single-lane road by detecting lane lines, avoiding traffic, stopping to wait for a pedestrian to cross, and changing its speed limit according to the posted speed sign.

### RF Buddy - Script Scanning Tool

Accenture **Innovation** Project - March 2022

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

### Visualizing Citi Bike Trips with Tableau

Coursera Certified Project - October 2020

- Created and publish **data visualizations** with dashboards in Tableau

### BirdStrike Prevention System - Computer Vision and IoT based project

Academic Project - June 2020

- Caffe-**object detection** model is used to detect birds in real-time with **OpenCV** in python, transmit the location data to the **Arduino** with serial communication and emit harmless lasers at the location by decoding the data.

## 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).