

# 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 - July 2020

**GPA 8.38 / 10.00**

## SKILLS

Languages/Frameworks: Python, R, SAS, 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, ggplot2, NumPy, OpenCV, scikit-learn, GCP, Tableau, Excel

## WORK EXPERIENCE

### Graduate Research Assistant, Columbus State University

September 2022 - Present

- Developed a remote surveillance system capable of accurately detecting and distinguishing between civilians and military personnel in real-time using Nvidia Jetson with **GPU** acceleration.
- Conducted **root cause** analysis and research to identify and resolve system issues. Utilized **YOLO** and **PyTorch** to train neural network models and performed automation on annotation, and data preprocessing.

### Application Development Associate, Accenture

January 2021 - June 2022

- Created & implemented **RPA**-based web and database automation testing, designing, and implementation.
- 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 with Jenkins **CI/CD** pipelines.
- Independently developed a Tkinter tool to streamline script validation, saving over **100 hours** of manual effort.
- Build a model to understand project requirements and validate project fulfillment from document data.
- Skills utilized: Python, SQL, Databases, Automation, pyodbc, Java, NLTK, Jenkins, ALM, Docker, Tkinter, Flask, GCP, Data Analysis, Product development, Jira, Bitbucket.

## PROJECTS

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

Academic Project - December 2022

- Developed a Car with **TPU** to navigate **autonomously** on a single-lane road by detecting lane lines, avoiding traffic, waiting 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 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 team of 120 engineers with the track of results data into the database using **pyodbc**.

### Visualizing Citi Bike Trips with Tableau

Coursera Certified Project - October 2020

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

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

Academic Project - June 2020

- Utilized a Caffe object detection model and **OpenCV** in Python to detect birds in real time. The model transmitted the bird location data to an **Arduino** device, which then emitted harmless lasers at the bird's location.

## 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).