

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. Script scanning tool for Accenture.

EDUCATION

Columbus State University, GA

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

December, 2023

GPA 4.00 / 4.00

L. D. College of Engineering, India

Bachelor of Engineering in Electronics and Communication

June, 2020

GPA 8.38 / 10.00

CERTIFICATIONS

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

SKILLS

Languages/Frameworks: Python, R, Java, Git, YOLO, TensorFlow, 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

Others: Docker, Jenkins, Linux, pandas, NumPy, Arduino, AWS, GCP, Tableau, PyTest, Photoshop

WORK EXPERIENCE

Graduate Student Researcher, 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 focusing on the processing speed for object detection.
- Identifying and resolving problems through root cause analysis and research. Working on data collection, labeling, augmentation, data generation, Image processing with **OpenCV** and training neural networks using **TensorFlow**.

Application Development Associate, Accenture

January, 2021 - June, 2022

- Created & implemented **RPA**-based web and database automation testing, 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.
- Built a tool with Tkinter to validate the scripts as per client's requirement as a result code review becomes so simple.
- Worked on a model using NLTK which can understand the requisite from document & 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

RF Buddy - Script Scanning Tool

Accenture **Innovation** Project - March 2022

- Saved 100 hours of work per week by developing a script scanning tool made 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**.

Bird Species Recognition - Convolutional Neural Network

Personal Project - January 2021

- Trained a model on CUB-200 dataset on 200 different categories and achieved 81.2% accuracy on test split using **tensorflow** and visualizing the data using **matplotlib**.

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

- Caffemodel-**object detection** model 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.