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 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 - June, 2020
Bachelor of Engineering in Electronics and Communication **GPA 8.38 / 10.00**

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

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 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 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**.

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.

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).