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   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, 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, 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 developing an accurate and high-speed object detection model.
- Identifying and resolving problems through root cause analysis and research. Working on data collection, labeling, 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 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

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).