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 - July 2020

Bachelor of Engineering in Electronics and Communication   **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, VS Code, 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

- Designed and developed a remote surveillance system with real-time object detection and classification capabilities, the system was optimized for power efficiency with **GPU** acceleration for high-performance computing.
- 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 data retrieval from Hadoop and AWS Athena platforms using Robot Framework in a **Docker** environment. Conducted automated data validation through queries integrated 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 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).