

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 - June, 2020

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, 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 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, 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 to navigate autonomously on a single lane road by detecting lane lines, detect and avoid traffic and, stop to wait for a pedestrian to cross, and change 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 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).