

# Hariharan Nagarajan

ML Engineer

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## PROFILE

Experienced RPA Developer with 1.8+ years of expertise in UiPath, specializing in automation and data analysis to deliver actionable business insights. Now transitioning into Data Science as a fresher, with foundational knowledge in Machine Learning, Natural Language Processing, and Generative AI. Passionate about continuous learning and eager to apply advanced data science techniques to contribute to innovative business solutions and growth.

## SKILLS

Python | Data Visualization | Machine Learning | Deep Learning | PowerBI | Streamlit | SQL | RPA - UiPath | LLM | Hugging Face | AWS Cloud | NLP | BeautifulSoup

## PROJECTS

### Twitter Sentiment Analysis

Key Skills: Streamlit, EDA, Python Packages - Pandas, Scikit-learn, Nltk

- Built **Twitter Comments Sentiment Analyzing System** and used collaborative filtering technique
- Implemented the **Random Forest classifier algorithm** to develop the model that help users **determine whether the product received positive or negative feedback** with a streamlit webapp.
- Developed a machine learning sentiment analysis model that achieved a **precision** score of **0.90**.

### Real Time Face Detection Model

Key Skills: Streamlit, EDA, Python Packages – OpenCV, Ultralytics, Numpy,

- Developed deep learning yolov8 model which **detects the human faces from images, videos and in real time**.
- Deployed a streamlit webapp where the user can upload and detect the face in image, video or capture a real time image of their own.
- Implemented Yolo version 8 model that achieved **mAP@50-95: 0.768** (mean Average Precision across IoU thresholds from 50% to 95%) and **Box Precision (P): 0.942**

## PROFESSIONAL EXPERIENCE

### Senior Analyst in RPA

Dec 2021 – Jun 2023 | Chennai

HCL Technologies pvt ltd

- Automated several complex business processes to minimize human intervention and provide more accuracy and added more value to business process using Re-framework.
- Maintain several RPA bots as batch processes on daily basis and ensure quality and high performance to the internal and vendor applications of the organization.
- Developed and executed automation solutions using UiPath and Automation Anywhere for portals and applications, **driving 40% reduction in manual tasks** and **saving 100+ hours per month**.
- Implemented individualized bots for each SharePoint document, utilizing control flows from SharePoint Designer (2007 version), resulting in enhanced document organization and **reduced error rates by 50%**.

## EDUCATION

### IIT-M Advanced Programming Professional & Master Data Science

Mar 2024 – Sep2024 | Chennai

IIT-M GUVI

### Bachelor of Engineering in Electrical and Electronics

Aug 2017 - Aug 2021 | Ranipet

C. Abdul Hakeem College of Engineering and Technology

## CERTIFICATION

- UiPath Certification
- Coursera – HTML, CSS, JavaScript
- Coursera - Machine Learning