**HARIHARAN ELANGOVAN**

Aspiring Data Scientist

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**Professional Summary :**

**Aspiring Data Scientist** with hands-on experience in building and deploying end-to-end machine learning solutions across NLP, Computer Vision, and Predictive Analytics. Proficient in Python, SQL, TensorFlow, PyTorch, and Scikit-learn, with strong skills in data preprocessing, model evaluation, and real-time deployment using Flask and Streamlit. Skilled in data visualization with Power BI and Tableau, with proven ability to deliver AI-driven insights and scalable solutions

**Education:**

**Artificial Intelligence – Diploma Course (Online)**  2025  
State University of New York (SUNY), USA

**Professional Program in Data Science and AI**  2024–2025  
360DigiTMG, Chennai

**Bachelor of Science in Information Technology**  2021–2024

Bharath College of Science and Management, Thanjavur   
CGPA: **7.94 / 10**

**Skills:**

Python, SQL, MySQL, PostgreSQL, Machine Learning, Deep Learning, Natural Language Processing (NLP), Computer Vision, Predictive Analytics, Text Mining, Data Preprocessing, Feature Engineering, ETL Pipelines, Web Scraping, Text Extraction, TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Power BI, Tableau, Matplotlib, Seaborn, Microsoft Excel, Flask, Streamlit, API Development, Docker, AWS EC2, Git

**Professional Experience**

**Data Science Intern – VCODEZ, Chennai** Mar 2025 – Jun 2025

* Performed data cleaning, preprocessing, and visualization to prepare datasets for analytics projects.
* Built and evaluated regression models to support predictive analytics for client business use cases.
* Assisted in deploying machine learning models with Flask for real-time applications.
* Participated in code reviews and client discussions to ensure technical alignment with requirements.

**Data Science Intern – 360DigiTMG, Chennai** Jun 2024 – Mar 2025

* Developed computer vision models for workplace activity recognition using YOLO, OpenCV, TensorFlow, and PyTorch.
* Improved model accuracy through advanced preprocessing techniques and optimized training methods.
* Integrated AI-driven monitoring into workplace systems, enhancing compliance and operational efficiency.
* Contributed to solution deployment, resulting in **85% employee satisfaction** with seamless adoption.

**Projects :**

**MILITRANS: AI-Powered Multilingual Translation** (Python, NLP, OCR, Transformers, MongoDB, Streamlit)  
Built an AI translation engine for defence SOPs with OCR text extraction, context-aware multilingual translation, and a Streamlit dashboard. Reduced training delays by **40%** through accurate regional translations.

**Mini Social Media App with Toxic Comment Classification** (Python, Flask, Node.js, MongoDB, Scikit-learn)  
Developed a mini social platform with real-time toxic comment filtering using Logistic Regression and Flask API. Integrated Count Vectorizer/TF-IDF for sentiment analysis and Node.js/MongoDB for backend.

**Workplace Activity Recognition System** (Python, TensorFlow, YOLOv5, OpenCV, Streamlit)  
Implemented a computer vision solution for workplace safety and productivity using YOLO + TensorFlow. Delivered an interactive Streamlit dashboard, achieving **85% employee satisfaction**.

**Certifications :**

Data Science & AI (Professional Program) – 360DigiTMG

Python Programming – 360DigiTMG

SQL Basics – 360DigiTMG

Microsoft Power BI – 360DigiTMG

Python for Data Science – NPTEL

Advanced Microsoft Office – Naanmudhalvan

English Typewriting (First Class, Distinction) – Govt. of TN

Diploma in Desktop Publishing – CSC

**Leadership & Extracurricular Activities**

* **Student Vice President, Department of IT** – Represented student body and coordinated academic and cultural events.
* **NSS Coordinator** – Organized and led community service programs, fostering student participation in social initiatives.