

SURYA NATTARAYASAMY

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EDUCATION

Sri Krishna Arts and Science College
Master of Computer Science(M.Sc CS).
Bharathiyar University
Bachelor of Computer Science(B.Sc CS)

Coimbatore, India
2024-Till Date
Coimbatore,India
2020-2023

SKILLS SUMMARY

- **Languages** : Python (Advanced), Core Java.
- **Data Science & Machine Learning** : Pandas, NumPy, Machine Learning Algorithms, Deep Learning Algorithms.
- **Databases** : MySQL, SQLite, MongoDB.
- **Web Development** : HTML, CSS, Flask,Django.
- **Tools & Platforms** : Jupyter Notebook, PyCharm, Visual Studio Code
- **Version Control** : Git
- **Soft Skills** : Strong problem-solving abilities, effective communication,teamwork, and critical thinking.

WORK IINTERSHIP

Data Science Intern | Elysium Academy | [Certificate](#)

January 23- June 23

- Applied Python and machine learning techniques to real-world datasets.
- Built data preprocessing pipelines and predictive models using Pandas and Scikit-learn.
- Delivered data insights through EDA and visualizations.

PROJECTS

Web-Based Sentiment Analysis Using Deep Learning | [Link](#)

- Developed a Flask web app for sentiment analysis using customized deep learning models for various text types (movie reviews, tweets, etc.).
- Improved sentiment prediction accuracy through tailored preprocessing and model selection.
- Delivered a responsive interface enabling real-time sentiment analysis.

Real-Time Object Tracking with YOLOv8 and OpenCV | [Link](#)

- Built a real-time object detection and tracking system using YOLOv8 and OpenCV for live webcam feeds.
- Displayed class names, confidence scores, and assigned unique colors for better visual tracking.
- Optimized for high detection accuracy and efficient real-time performance.

CERTIFICATIONS

Python With DataScience |[Certificate](#)

December 2022

Elysium Academy | 6-Month Program

- Learned and implemented key **ML algorithms** such as Linear Regression, Decision Trees, Random Forest, and kNN,etc
- Built foundational knowledge in **Flask** for web development and used **HTML** for front-end integration.
- Worked on practical exercises combining **data analysis** and **model building** in Python

IBM AI Engineering|[Certificate](#)

April 2024

Coursera | Online Course

- Trained, fine-tuned, and deployed deep learning models using TensorFlow, PyTorch, and Keras.
- Built NLP applications with LangChain, Hugging Face, and major LLM frameworks (GPT, LLaMA, BERT).
- Implemented transfer learning projects and developed RAG-based solutions using LangChain.