**Srihari Karthik**

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**education**

**SRM Institute of Technology** Chennai, India

Bachelor of Technology, Computer Science Engineering, **CGPA: 9.26/10** 2018-2022

**skillsets**

**LANGUAGES** : Python, JavaScript, C++, SQL

**FRAMEWORKS/LIBRARIES** : Flask, Django, React, Pandas, NumPy, TensorFlow, NLP, SCIPY, Deep Learning (RNN, CNN)

**TOOLS/TECHNOLOGIES** : Docker, Rest API, ETL, PowerBI, AWS, Azure, Streamlit, GIT, GEN-AI (Basics), Lang Chain(Basics)

**CERTIFICATES/COURSES** : AWS Cloud Practitioner, Machine Learning(Coursera), Cloud Computing(IITK), Data Science Python(Udemy)

**work experience**

**Deloitte** Bangalore, India

**Python Developer - CTF Challenge Development** Dec2023 –July 2024

* Designed, developed, and deployed cybersecurity CTF(Capture The Flag) challenges, from scratch using python, flask, react.
* Received SPOT award for Significantly increasing project efficiency by producing **20+ challenges** in a quick span of time.
* Built challenges in Cryptography, Data Science, Web Exploitation, Networking, and containerized the applications using Docker.
* First team member to develop a GEN-AI challenge which involved working with various machine learning techniques.
* **Secured funding** for another year with promising technical programs which was highly appreciated by the management.
* Involved in planning and organizing **5+** internal and external CTF events.

**AI / ML Engineer – Kyndryl Implementation** Mar2023 –Dec 2023

* Created XML-based rules from JSON documents to train a Machine Learning model for predicting legal contract attributes.
* Automated keyword extraction using NLP (NLTK, NER, TF-IDF, BERT), reducing processing time from **6 hours to 2.5 hours.**
* Utilized ML models (SVM, KNN, Logistic Regression) to categorize contracts and migrated 100k+ contracts using Azure BLOB.
* Developed a Flask web application for streamlining the training process, leveraging LLM, ORM, and REST APIs features.
* Promoted from analyst to consultant for outstanding performance which included improving model accuracy from **63% to 90%.**
* Trained and Managed client personal on the features of NLP and rule building.
* Engaged in POC discussions with cross functional teams and stakeholders.

**Data Analyst – Highmark / Wholecare Implementation** Nov2022 –Mar 2023

* Boosted data analysis efficiency by **30-40%** through optimized SQL code and developed interactive Power BI dashboards.
* Processed data from **10,000+** contract documents using SQL Server Stored Procedures and window functions.
* Built ETL processes to transfer on-premises SQL Server data to AWS S3 Data Lake using Python.
* Delivered all project components excellently, leading to a new client deal and **increased revenue.**

**Tech Intern – Risk and Advisory** Jan2022 –April 2022

* Trained in Java, JavaScript, and React; worked on Identity Access Management tools like SailPoint.
* Created custom Java solutions based on client requirements and resolved system bugs by implementing new functions.

**projects**

**Carpooling Champion: A study on the effect of Carpooling and Traffic Prediction using Deep Learning.** (OpenCV, LSTM, Keras)

Used YOLO and TensorFlow to feed a LSTM model to predict car count and showcase a reduction in travel time by 25% with carpooling.

**Music Monsoon: A music suggestion app based on the weather of a location using Machine Learning.** (CNN, JS, Flask)

Developed a web application to recommend different genres of songs based on the weather condition, using a CNN model.

**Resume Ranker: An NLP application used to rank profiles of applicants based on provided input.** (BERT, TF-IDF)

Developed an application that ranks resumes on their similarity to a given Job Description using BERT and TF-IDF. This project was used by an internal team at Deloitte for their hiring process, optimizing the recruitment process and reducing time taken by 30%

**What’s Cooking? : A Recipe generator that is built using GEN AI Features**(GENAI, React, XGBoost, Gradient Boost)

Developed a recipe generator using GENAI functionalities that also predicts cuisine of given ingredients using machine learning models.

**publications**

* Coauthored and presented an ML-based crop health prediction paper at the International ICDAM conference, published in SSRN.

**extra curriculars and honors**

* 2x SPOT Award recipient for exemplary performance in client engagements at Deloitte.
* Regular volunteer at Deloitte’s Impact Everyday program, aimed to promote education and wellbeing of special children.
* Led a team of 4 to develop a solution for a business challenge to participate in the AWS Innovation Challenge.
* Core member of Firm initiatives at Deloitte. Roles included: Lead editor for the Advisory Legal business newsletter.
* Member of firm initiative involved in developing a business case to promote the feasibility of using GenAI in the legal workspace.
* Awarded with Special Mention Delegate at the DEMUN (sub-branch of SRM Model United Nations).
* Trinity certified keyboardist and trained singer. Member of Deloitte’s cultural club – DVIBES.