

# Srihari Karthik

Bangalore, India · srikarthik@deloitte.com · +919087908748 ·

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## SKILLS

PYTHON – FLASK- DJANGO - SQL – POWERBI – JAVASCRIPT – DOCKER – AZURE(BASICS) – AWS(BASICS) – REACT(BASICS)

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## WORK EXPERIENCE

### Deloitte

Bangalore, India

#### Python Developer - CTF Challenge Development

Dec 2023 –June 2024

- Designed, Developed and Deployed Cyber security based CTF (Capture the flag) Challenges from scratch.
- Improved the production efficiency of the project majorly by producing 15+ challenges in a quick span of time.
- Built challenges in various technical categories of: Cryptography, Data science, Web Exploitation, Networking and more.
- Created various docker images for containerizing different kind of applications to run on our product servers.
- Received SPOT award for my contribution in optimizing the project output rate and developing complex and fun challenges.
- Secured funding for another fiscal cycle by generating promising technical programs that was appreciated by the management.
- Tech Stack: **Python, Flask, Docker, Azure, Git, JavaScript, React, Streamlit, Networking**

#### AI/ML Engineer – Kyndryl Implementation

Mar 2023 –Dec 2023

- Created XML based rules from JSON documents to train a ML model for predicting values of attributes in legal contracts.
- Implemented NLP functionalities like NLTK, NER, TF-IDF and BERT to automate process of finding keywords for rule building.
- Automated keyword finding process reducing processing time of 6 hours to around 2 hours,
- Utilized machine learning models such as SVM, KNN, Logistic Regression to categorize contracts based on certain criteria.
- Developed a web application in flask used by both the legal and tech team for streamlining the entire training process.
- Leveraged GEN AI functionalities (Transformers), ORM features, REST APIs to implement the web application.
- Improved accuracy of the model from 63% to a heavily appreciated 90% in a small period of 6 months.
- Received promotion from analyst to consultant due to an impeccable performance in this project.
- Tech Stack: **Python, NLP, XML, Excel, Rest API, GEN AI (Basics)**

#### Data Analyst – Highmark / Wholecare Implementation

Nov 2022 –Mar 2023

- Worked in writing complex SQL queries to perform data extraction of legal contract data, to extract desired information.
- Improved efficiency of the data analysis by 30-40% by developing optimized SQL code using Window Functions.
- Developed interactive dashboards in Power BI for reporting on client data, which improved the decision-making process.
- Processed data worth of 10000+ contract documents using Stored Procedures in SQL Server.
- Delivered all components of the project superlatively, prompting the client to sign another deal with the firm, increasing revenue.
- Tech Stack: **SQL, Power BI, Python**

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## PROJECTS

### ScanMe Pro

- Created a web app that provides users with an interface to generate Identification Cards and Build Employee Database.
- Implemented using OpenCV, NLP, SVM, Flask, SQL Alchemy

### Traffic Flow Analysis

- Utilized Deep Learning Neural Models and LSTM Time series feature to predict the flow of traffic in a particular region.
- Implemented using TensorFlow, LSTM, Pandas, NumPy, OpenCV

### GENAI Genie

- Working on Building an AI chatbot that allows users to ask questions about uploaded pdf's, JSON files, SQL code.
- Using tools in GEN AI and concepts like Lang chain. Flask, SQL