

SANDEEP SHAHIL

Data Scientist

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Summary

- Having of diversified 1.5+years of **DATA SCIENTIST** experience in **SYSARKET DATASOL PVT. LTD.**
Developed and deployed machine learning models based on client requirement. Collaborated cross-functionally with to understand their data needs and provided data driven recommendations that enhanced decision-making processes. Utilized data visualization tools (matplotlib, seaborn with python) to create informative dashboards and reports for stakeholders, resulting in improved data accessibility and comprehension. Participated in data pipeline development and data engineering tasks to ensure data quality and availability for analysis. Worked on LLMs Created Chatbots, Object detection Models and Transformer Models. Fined tuned Models for client requirement.

Experience

Data Scientist

Title: Specializing in AI-Powered Q&A Systems for Finance Using Azure and OpenAI

SYSARKET DATASOL PVT. LTD JAN - Present 2024

- As **Data scientist** Developed a custom Q&A system for finance invoices stored in Azure Blob Storage, utilizing Azure AI Document Intelligence and a Retrieval-Augmented Generation (RAG) model with OpenAI embeddings. Built and deployed a Flask-based chatbot application to allow users to query invoices through natural language. Conducted thorough testing of individual components (Blob Storage, Document Intelligence, RAG model, and chatbot) and validated end-to-end functionality. Deployed the solution on Azure App Service, ensuring scalability and real-world customer interaction capabilities.

Data Scientist

Title: Defect Detection Specialist Using YOLOv8 Model for Real-World AI Solutions

SYSARKET DATASOL PVT. LTD JUN - DEC 2023

- Experienced Data Scientist with expertise in solving business problems using Python and Big Data concepts. Worked on fine-tuning the YOLO V8 model for defect detection and classification of wheel rims using X-ray images, optimizing the model for real-world deployment. Proficient in machine learning, deep learning, and NLP, with hands-on experience in developing models for regression, classification, clustering, image recognition, and chatbot implementations. Skilled in using libraries such as scikit-learn, TensorFlow, and Spacy, with strong domain knowledge in banking, retail, and healthcare.

Office Assistant

SKT Institute Aug 2017 - Mar 2023 (5.8 yrs)

- As Office Assistant at SKT Institute for 5.8 years, handling administrative tasks such as document management, scheduling, and coordinating office activities. Provided support to staff, maintained records, and ensured efficient office operations. Demonstrated strong organizational and multitasking skills in a fast-paced environment.

Technical Stack

- Python
- Pandas, Data Analysis
- Matplotlib, seaborn, Data Visualization
- Seaborn, scikit-learn
- Generative AI
- Web Scraping
- Flask and Postman
- Object Detection with YOLO Models
- Power BI
- SQL
- Deep Learning
- Predictive model creation
- Natural Language Processing
- Machine Learning
- BERT/Gemini, RAG
- MLOps
- Transfer Learning Models
- Fine-Tuning Transfer Learning Models
- Azure Cloud Services
- GIT Hub

Project # 1

- **Project Name** : **Medicare Provider Fraud Detection**
- **Technical Environment** : **Python, NumPy, pandas, matplotlib, seaborn, Feature Engineering, scikit - learn.**
- Designed a advanced Medicare Provider Fraud Detection Models, leveraging machine learning algorithms to analyze patient data. Empowered data-driven decision-making in healthcare, providing accurate predictions for proactive treatment strategies and optimizing patient care.
- Performed in-depth data analysis to identify crucial features and trends in patient health data and Provider Data.
- Done Exploratory Data Analysis and Visualization.
- Done Feature Engineering, calculated Impact Analysis and Relationship is validated.
- Collaborated across disciplines for seamless integration into healthcare workflows, effectively communicating insights to medical professionals.
- Developed and implemented a Provider Fraud Detection Prediction Model, boosting accuracy by doing Hyper parametric tuning. And created two models by tuning the parameters.
- Continuously refined the model for ongoing accuracy in dynamic healthcare environments.

Project # 2

- **Project Name** : **Generative AI**
- **Technical Environment** : **Model development, deployment, cloud Azure , Yolo**
- Proficient in Generative AI and Large Language Models, including BERT and Gemini, for various NLP tasks
- Experienced in implementing Retrieval-Augmented Generation (RAG) models to enhance content quality. Skilled in web scraping using tools like BeautifulSoup and Scrapy. Adept in MLOps, deploying models with Streamlit.
- Expertise in developing web applications with Flask and API testing with Postman.
- Proficient in transfer learning with MobileNet, ResNet, and, and fine-tuning Xception, Mobile Net models for specific applications.
- Experienced in real-time object detection using YOLO models.

Certificates

- Done internship in cognifyz as Data Science Intern
- Done internship in cognifyz as Machine Learning Intern

Education

- Bachelor of Technology | CIVIL | Mahaveer institute of Science and Technology, Hyderabad (2013-2017)
- Higher Secondary Education | MPC | Sri Chaitanya Educational Institutions, Vijayawada (2012– 2013)
- Secondary Education | St. Paul's Lutheran School (2011 – 2012)

Languages

- English, Hindi, Telugu