

VaradaVamsi
Senior Associate

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CAREER OBJECTIVE

Seeking a responsible position as a **Senior Data-Scientist** in Software Industry that enable me to continue to work in a challenging and fast-paced environment, leveraging my Data-science knowledge and fostering creativity with many learning opportunities.

PROFILE SUMMARY

Accomplished and innovative data scientist with 8 years of hands-on experience in leveraging deep learning, computer vision, and image processing techniques. Proficient in the entire data science lifecycle, from meticulous data preprocessing to successful model deployment. Extensive expertise in designing and implementing deep learning models for various applications, including natural language processing and computer vision. Proven track record of developing robust computer vision algorithms for image and video analysis, object detection, and recognition tasks. Strong background in image processing techniques, feature extraction, and enhancement, contributing to the development of advanced computer vision solutions. Skilled in utilizing generators for efficient data augmentation, synthesis, and managing large datasets, optimizing model training and performance.

SKILL SET

TECHNICAL SKILL GRID	
Language	Python 3.8
Database	RDBMS, SQL Server Oracle, MySQL, S4 HANA DB
Technology	Python, Machine learning, Artificial intelligence, Deep Learning, modelling, Azure pipelines, Docker Kubernetes, LLM, Generators, GPT4.0

EMPLOYMENT PROFILE

CURRENT EMPLOYER:

Employer : EY GDS, Bangalore
Designation : Senior Associate (CT-SAP)
Date of Employment : From 11-OCT-2021 to Present Date

PREVIOUS EMPLOYER:

Employer : KPMG, Bangalore
Designation : Senior Associate
Date of Employment : From 09 SEP 2018 to 10 OCT 2021

Employer : Accenture, Bangalore
Designation : Software Engineer
Date of Employment : From 02 JUL 2015 to 08 SEP 2018

EDUCATIONAL BACKGROUND

B.Tech from Gitam University with 77.6%

CERTIFICATION

- Generative AI with Large language models – Coursera
- CDS (Certified Data Scientist) HVTFT49U4RV9 - Stanford University
- Mathematics for Machine Learning (G686YHVAA4RR)- Coursera

PROJECT PROFILE

Project #6 : EY- Contract Authoring
Company : EY-GDS
Type : Product development
Role : Lead Data scientist/Product owner
Platform : Python, Artificial Intelligence, Machine learning(Supervised-Learning), Anomaly detection , SAP BTP, PostgreSQL , OpenAI APIs, Text Davinci—003, Text Ada
Methodology : Agile Development.

Developed an AI-driven contract authoring platform leveraging OpenAI's advanced APIs. The platform utilized semantic search across extensive contract datasets to locate relevant clauses, coupled with dynamic clause generation tailored to specific user requirements. Integrated document information extraction for scanned contracts improved data input capabilities. A feedback loop allowed iterative refinements, ensuring generated contracts remained legally coherent and contextually apt. This initiative reduced manual drafting time by 60% and heightened contract accuracy. Collaboration with legal experts ensured ethical and legal compliance, while working alongside UX/UI specialists delivered an intuitive user experience

Responsibilities as a Lead Data Scientist:

- **Data Management & Strategy:** Oversaw the collection, preprocessing, and management of the extensive contract dataset, ensuring high-quality, relevant, and diverse data to fuel the AI models.
- **Model Development & Implementation:** Led the design, training, and deployment of semantic search and clause generation algorithms, optimizing for accuracy and efficiency in real-world scenarios.
- **Collaboration & Communication:** Acted as the primary liaison between the data science team, legal experts, and software developers, ensuring alignment of technical and domain-specific objectives.
- **Continuous Improvement:** Implemented feedback loops and iterative model refinements, analyzing user feedback and system performance to drive improvements in the platform's AI capabilities.
- **Supplier Analysis:** **Designed algorithms to calculate supplier reliability scores, optimizing supplier decisions.**
- **Ethical & Legal Compliance:** Collaborated closely with legal consultants to ensure the AI's output maintained legal integrity, while also addressing potential ethical concerns arising from AI-assisted contract drafting.

Project #5 : EY- Autonomous supply chain planning
Company : EY-GDS
Type : Product development
Role : Lead Data scientist
Platform : Python, Artificial Intelligence, Machine learning(Supervised-Learning), Anomaly detection , SAP BTP, S4/Hana on-premise, Text-Davinci-003(LLM)
Methodology : Agile Development.

Autonomous supply chain solution, leveraging predictive analytics to optimize operations. By integrating demand forecasting that accounts for external factors, alongside supplier reliability score calculations, this

solution provides businesses with a comprehensive understanding of lead time variabilities. As a Lead Data Scientist, I played a pivotal role in architecting the underlying predictive models, guiding the team in feature engineering to capture the nuances of external factors effectively. Through iterative model testing and validation, we ensured high forecasting accuracy.

Responsibilities as a Senior Data Scientist:

- Model Development: **Architected predictive models for demand forecasting considering external factors.**
- Feature Engineering: **Led feature creation from raw data to capture supply chain dynamics effectively.**
- Data Quality: **Oversaw data collection and preprocessing to ensure accuracy and relevance for modeling.**
- Model Evaluation: **Implemented techniques to validate forecasting model performance against business objectives.**
- Supplier Analysis: **Designed algorithms to calculate supplier reliability scores, optimizing supplier decisions.**

Project #4 : **EY-SOFIE (Smart Secure Solution for AI @ EY)**

Company : **EY-GDS**

Domain : **Software development security**

Type : Product development

Role : Data scientist

Platform : Python, Artificial Intelligence, Machine learning (Supervised-Learning), Deep Learning, Secure AI, SAP AI Core , SAP AI Launchpad , Azure Devops. SAP Cloud

Methodology : Agile Development.

The intent of **EY Sofie** a cloud-based AI Security assessment solution which secures AI models and provide end to end cybersecurity solution specially for AI and ML. Helps companies to find the vulnerabilities in deployed AI models and algorithms by using both the data-centric approach and the model-driven approach.

Responsibilities as a Data Scientist:.

- Validated the solution by taking in to account **data poisoning** by **adversarial entities** in to the dataset.
- Involved in the **solutioning** part of both the **blackbox** and **whitebox** approach.
- Simulate the attack scenario by using GAN model to generate the attacking images and create the defense mechanism apt to it.
- Involved in API design and development in SAP AI Core and SAP AI Launchpad.
- **SAP HANA Cloud** Modelling and database hands on expertise.

Project #3 : **Financial Statement Mathematical Accuracy (FSMA)**

Company : **KPMG-GDS**

Domain : **AUDIT**

Type : Product development

Role : Senior Data scientist

Platform : Python, Artificial Intelligence, Computer vision Faster-RCNN, SSD

Methodology : Agile Development.

In this project, I led the development of an advanced solution for automatic audit processing, harnessing the power of Computer Vision, specifically the Faster R-CNN architecture, and deep learning techniques. The primary objective was to revolutionize the traditional audit workflow by automating the extraction and analysis of key information from audit-related PDF documents.

Responsibilities as a Senior Data Scientist:

- Applied cutting-edge techniques to process textual and graphical elements, ensuring comprehensive information extraction.
- Implemented the Faster R-CNN (Region-based Convolutional Neural Network) architecture for robust and accurate object detection.
- Trained the model to identify and locate crucial audit-related data points, adapting to diverse document layouts and structures.
- Automated the audit data extraction process, significantly reducing the need for manual intervention.
- Utilized deep learning algorithms to extract and interpret textual information, including financial figures, dates, and key audit findings.
- Engineered the system to handle variations in document formats, demonstrating adaptability to different audit report templates.

Project #2 : Mobile Application INFA

Company : Accenture

Domain : Marketing

Type : Application Development

Role : Senior Systems Engineer

Platform : Python, Artificial Intelligence, Machine learning(Supervised-Learning),Android JAVA

Methodology : Agile Development.

This Application helps the Tele-communication Network field surveyor for Surveying the field area and maintaining the equipment's.

Responsibilities as a Data Scientist:

- Analyzing the data for finding the alternate routes using haversine Algorithm.
- generated a model using association-rule-mining which is capable to identify necessary tools required for maintaining the equipment.
- Achieved 95% accuracy in detecting •
- Used IOT device for flood and temperature detection through raspberry-pi device.
- Developed application using Android- java.

Project #1 : Pole Cleansing

Company : Accenture

Domain : Telecom

Type : Application Development

Role : Senior Systems Engineer

Platform : Python, Artificial Intelligence, Machine learning(Supervised Learning), FasterRCNN

Methodology : Agile Development.

This Application helps the Tele-communication Network field surveyor for identification of telecommunication equipment such as poles, Ducts, trenches, Pits

Responsibilities as a Data Scientist:

- Analyzing the requirements from the Product owner
- Preprocess the images using various image preprocessing techniques
- Annotate the image using Image annotator tools
- Train the model using **Faster RCNN** technique.
- Optimize the model for better IOC value.
- Deployed the application in Azure cloud as an AP