GUDUGUNTLA SOWMYA

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SUMMARY*

Results-driven **Data Science professional** with **3.8 years of experience** in data analysis, predictive modeling, and risk assessment. Skilled in **Python, R, SQL, Tableau, Power BI, and Excel**, with a proven track record of transforming complex data into actionable insights. Recognized with multiple awards for excellence in **high-stakes projects**, demonstrating expertise in **machine learning, statistical analysis, and data-driven storytelling**. Passionate about leveraging analytics to drive business decisions and create meaningful impact.

TECHNICAL SKILLS:

AI & Machine Learning: Supervised Learning, Unsupervised Learning, Deep Learning, Neural Networks, Ensemble Learning Methods, Feature Engineering, Model Evaluation
Frameworks & Libraries: TensorFlow/Keras, Scikit-learn, Pandas, Matplotlib, Seaborn, Open CV, YOLO
Data Visualization: Power BI, Tableau
Programming Languages: Python, R, SQL
Cloud Computing: AWS
Development Tools: Git, Jupyter Notebooks
Data Processing: Data Cleaning, Label Encoding, Standardization, Statistical Techniques

PROFESSIONAL EXPERIENCE

DELOITTE SUPPORT SERVICES INDIA PRIVATE LIMITED
HYDERABAD, TELANGANA, INDIA
Vendor Risk & Compliance Analyst
October 2020 – August 2024

Project - Strategic Expansion of Vendor Risk Optimization and Coverage

- **Received 2 Spot Awards and 1 Applause Award** for achieving a **30% reduction in third-party risk incidents** through data-driven risk assessment and strategic compliance initiatives.
- **Demonstrated leadership in achieving Deloitte's strategic goal** of expanding **VRCT coverage from 48% at the end of FY23 to 97% by October 2023**, completing the transition **4 months ahead of schedule** by effectively communicating with GPS practice teams.
- **Conducted 10+ risk-related projects**, compiled and analysed **500+ weekly data points**, and presented **actionable insights to senior leadership**, driving **15% faster decision-making** on vendor risk.
- **Monitored 100+ vendors** across business resilience, third-party risk, cybersecurity, and identity management, proactively identifying and mitigating **25+ potential threats per quarter**.
- **Supported the implementation and training** of **5+ new policies and risk tools**, improving compliance adherence by **20%** within the Third-Party Risk Program.
- **Raised awareness of operational risks** from third-party engagements by delivering **monthly risk briefings to 10+ stakeholders**, resulting in a **40% reduction in risk exposure**.
- **Partnered with Vendor Management** to develop **data-backed risk mitigation strategies** for **50+ key third-party relationships**, enhancing **vendor accountability by 35%**.
- **Led cross-departmental initiatives** to standardize **due diligence and risk assessment criteria across 4+ teams**, ensuring a **100% consistent framework for third-party onboarding** and reducing compliance gaps by **25%**.

LEADERSHIP EXPERIENCE

DELOITTE SUPPORT SERVICES INDIA PRIVATE LIMITED
HYDERABAD, TELANGANA, INDIA
Vendor Risk & Compliance Analyst
October 2020 – August 2024

Strategic Leader – VRCT Expansion Initiative:

- **Led the successful expansion of VRCT coverage from 48% at the end of FY23 to 97% by October 2023,** exceeding the strategic goal **4 months ahead of schedule**.
- Spearheaded cross-functional collaboration with **GPS practice teams**, effectively transitioning records to VRCT and **doubling coverage volume within 4 months**.
- Communicated key milestones and progress updates to senior leadership, ensuring alignment with compliance and risk governance objectives.
- Recognized for **exceptional leadership and strategic execution**, contributing to improved vendor risk transparency and operational efficiency.

Volunteer – Impact Day:
- **Led a team of 15 volunteers** in organizing and executing **Impact Day initiatives**, driving community engagement and corporate social responsibility efforts.

EDUCATION & OTHER

GITAM UNIVERSITY – M.Sc. DATA SCIENCE
2024 – 2026
OSMANIA UNIVERSITY (LOYOLA ACADEMY UG & PG COLLEGE) – B.Sc. COMPUTER DATA SCIENCE & DATA ANALYTICS ENGINEERING
2017-2020 – CGPA – 8.99/10

LANGUAGES

Telugu, English, Hindi

OTHER EDUCATION

- Certificate of Excellence in technical project competition organized during Machine Learning and Artificial Intelligence Internship.
- A Two-Day National workshop on LLMs and Generative AI.
- Power BI – Beginner
- AWS Cloud Practitioner Essentials

PROJECTS

CLASSIFICATION OF PLANT SEEDLINGS USING DEEP LEARNING

Developed a convolutional neural network (CNN) using Keras/TensorFlow to classify 12 different plant seedling species. The project included:
- Creating a custom CNN architecture with multiple convolutional, pooling, and dense layers
- Implementing data preprocessing and augmentation techniques to enhance model generalization
- Achieving 76.4% validation accuracy after 15 epochs of training
- Building a complete pipeline from image loading and preprocessing to model training and prediction
- Developing a user-friendly interface to select test directories and output classification results in CSV format

The model successfully differentiated between agricultural plant species like "Black-grass," "Charlock," "Common wheat," and others, demonstrating practical application for agricultural technology.

LICENSE PLATE RECOGNITION

Developed an end-to-end computer vision solution for automated vehicle license plate detection and recognition with the following components:

- Implemented a YOLOv8 object detection model to accurately locate license plates in images
- Created a robust image preprocessing pipeline including noise reduction, adaptive thresholding, and normalization techniques
- Integrated optical character recognition (OCR) with pytesseract to extract alphanumeric information from detected license plates

- Designed performance evaluation metrics using Intersection over Union (IoU) and Levenshtein distance to assess detection accuracy and character recognition quality
- Trained the model using custom datasets with transfer learning for optimized real-world performance
- Achieved approximately 78% character recognition accuracy on test images.

INTERESTS

Fashion, Yoga, Reading Books, Traveling, Hopping Cafes, Dance, Movies/TV Shows