

Sneha Priyadarshini S S

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Summary

Technology enthusiast with a strong foundation in deep learning, Computer Vision, machine learning, and data analytics. Currently pursuing an M.Tech. in Data Science, transitioning from a 3-year career in ETL testing, bringing expertise in data pipelines, data validation, and SQL. Passionate about leveraging AI, data-driven insights, and analytical problem-solving to drive impactful solutions. Open to opportunities where I can apply my technical skills and analytical mindset to real-world challenges across various domains.

Education

Master of Technology in Data Science

July 2024 - Present

Current CGPA: 8.74

Amrita Vishwa Vidyapeetham, Coimbatore

Bachelor of Engineering in Computer Science

July 2016 – Sept 2020

CGPA: 7.45

Coimbatore Institute of Technology, Coimbatore

Professional Experience

Test Analyst | Test Engineer

March 2021 – July 2024

Infosys Limited, Bengaluru

- Led a **Quality Assurance team** of 3 testers, collaborating with developers and stakeholders to enhance **data pipeline architecture** and ensuring smooth project planning and releases.
- Enhanced and optimized **complex SQL queries** for ETL workflows and increased the speed **by 20%**, laying a strong foundation for data preprocessing.
- Executed manual testing **on 500+ critical ETL workflows**, ensuring data integrity, quality and timely delivery.
- Created **defect management strategies** and identified anomalies, improving data quality to **87%** making it reliable for decision-making.
- Gained hands-on experience with **Agile methodology, CI/CD pipelines, ETL tools** (Informatica), Autosys and Ansible Tower

Technical Skills

- **Core Competencies:** Deep Learning (CNN, ANN, RNN, Image segmentation, Object detection), Linear Algebra, Machine learning, NLP, Probabilistic Graphical Model, Statistical Modelling, Data Preprocessing, ETL
- **Programming Languages:** Python, SQL
- **Tools & Frameworks:** Numpy, Pandas, Matplotlib, Tensor Flow/ Keras, NLTK, JIRA, Informatica, Autosys, Ansible Tower

Projects

Threat and Safety Detection System: Weapon, Mask and Smoking Recognition Using Deep Learning for Enhanced Security

- Developed a **CNN** architecture for mask and smoking detection, and used **MobileNetV2** architecture for weapon detection.
- Trained the model on a dataset of 11043 images and deployed the system to enable threat detection. Achieved an overall **accuracy of 96%**.

NLP-Based Resume Classification and Recommendation System using SVD and K-Means Clustering

- Implemented **TF-IDF** vectorization to transform textual data into numerical features for model training
- Built a **K-Means clustering model** to classify resumes by roles and recommend top 5 relevant resumes using feature extraction through **Singular Value Decomposition (SVD)**

Satellite Image Dehazing Using Deep Learning

- The goal of this project is to implement generative models (Pix2Pix and GAN) for satellite image dehazing and to maintain consistency across varying levels of unevenly spread haze - thin, moderate and thick haze.
- Used **Pix2Pix and GAN** architecture and evaluated the model using **PSNR values and SSIM scores**.

Certifications

- Infosys Certified Python Associate
- Generative AI Landscape certification - Infosys
- ETL Using Informatica (Infosys Certification)
- Business Communication Excellence Program Level 6