SNEHITH KONGARA

+1 214 892 7425 | snehithkongara2000@gmail.com
LinkedIn | https://github.com/Snehith529
Portfolio Website https://snehith529.github.io/snehithkongara/

EDUCATION

University of Texas, Arlington, TX, USA **Jan 2023 - Present**
Master's, Computer Science *GPA: **4.0/4.0***
***Specializations** Big Data Management, Intelligent Systems*

Velagapudi Ramakrishna Siddhartha Engineering College, India **July 2017 - July 2021**
Bachelor's, Computer Science | Engineering *GPA: **9.0/10.0***

COURSES

Data Analytics, Machine Learning, Artificial Intelligence, Distributed Systems, Data Mining, Data Analytics and Modelling Techniques, Database Systems, Design and Analysis of Algorithms, Statistics with R, Data Structures.

PROFESSIONAL EXPERIENCE

The University of Texas at Arlington Research Institute (UTARI) **TX, USA**
Research Assistant *September 2023 - Present*
- Data curation & statistical analysis on proprietary medical datasets led to 10%-time reduction – Fall 2023
- Currently focusing on improving human position detection using machine learning for smart cushion functionality – Spring2024

Tata Consultancy Services (TCS) **India**
Software Engineer – Java Developer *July 2021 - December 2022*
- Achieved a 5% boost in system scalability by developing Java-based microservices using Spring Boot framework.
- Orchestrated orders with Camunda, resulting in 10% reduction in fulfillment time
- Improved system efficiency by 10% through API call enhancements in an agile environment
- Maintained a 95% defect-free rate, leading to a 20% decrease in post-release issues

Indian Servers **India**
Machine Learning Engineer - Internship *March 2021 - June 2021*
- Utilized generative adversarial networks (GANs) and transfer learning techniques to implement solutions in deep learning
- Achieved a model accuracy of 90% through the development and training of deep learning models using TensorFlow

Indian Servers **India**
Machine Learning Engineer - Internship *May 2020 - August 2020*
- Developed classical machine learning models (regression and classification) on proprietary datasets
- Experimented with various data preprocessing and feature engineering techniques for linear regression, logistic regression, random forests, & neural networks, resulting in reducing noise and improving the overall reliability of machine learning models
- Achieved model optimization through fine-tuning hyperparameters and evaluated performance using metrics such as R-squared, AUC-ROC, accuracy, precision, and recall

EXPERTISE

JAVA, Python, C, SQL, R, Tableau, AWS, Artificial Intelligence, Machine Learning, Deep Learning, Hadoop, Spark, Automated Testing, Unit Testing, Integration Testing, End-to-End testing, TensorFlow, Continuous Integration/Continuous Deployment, Extract-Transform-Load (ETL) pipelines, Git, Maven, JIRA, Linux, Software Development Life Cycle, Eclipse, Visual Studio.

RESEARCH PROJECTS

Brain Tumor Classification Using Deep Learning Network – Github_Brain_Tumor
- Developed a deep learning model to detect tumors using Brain MRI images using ResNet-50 features
- **Tech Stack/ Libraries:** CNN, TensorFlow, Pandas, NumPy, Matplotlib, Python

Detection Of Fake Satellite Images Using Deep Learning – Github-Detection-of-fake-satellite-images
- Developed a deep learning model to detect fake satellite images using specialized hand-crafted features & ResNet50 features
- **Tech Stack/ Libraries:** GAN, NumPy, Pandas, Python

PUBLICATION

Detection And Classification of Lung Cancer Using Vgg-16 – IEEE Published Paper
- Developed a machine learning model that detects Lung Cancer using VGG-16
- Predict Malignant tumors in early stages of tumor with accuracy of 88%
- **Tech Stack/ Libraries:** NumPy, Pandas, Seaborn, Python

CERTIFICATIONS

- Introduction to Data Science by Cisco Networking Academy - Intro Data Science
- Data Analytics Essentials by Cisco Networking Academy - Data Analytics
- AWS Certified Cloud Practitioner Certification – AWS_CCP
- AWS Educate Introduction to Cloud 101 – Cloud101
- 98-381: MTA: Introduction to Programming Using Python by Microsoft - Python