GEETHA RAJA RAJESWARI DEVI VEGESNA

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PROFESSIONAL SUMMARY

Motivated and results-driven master's student offering a unique blend of academic excellence and hands-on experience in software engineering, with specialization in Big Data and Hadoop technologies. Adept at leveraging cutting-edge tools such as Apache Spark, Databricks, and Apache Airflow to design and implement end-to-end ETL frameworks, data ingestion processes, and ETL testing in dynamic Agile environments.

EDUCATION

New Jersey Institute of Technology **Sept 2022-May 2024**
Master's in Computer and Information Sciences
Gokaraju Rangaraju Institute of Engineering and Technology, India **Aug 2017-Aug 2021**
Bachelor of Technology, Information Technology

WORK EXPERIENCE

Company: ACCENTURE PVT LTD **Oct 2021– July 2022**
Associate Software Engineer **Hyderabad, India**

- I worked as a Data engineer and contributed to ETL framework development, data ingestion, and ETL testing in Agile project management setting.
- Applied expertise in extracting, merging, and analyzing data from diverse sources, employing a range of advanced tools and technologies within the Big Data and Hadoop ecosystem.
- Demonstrated proficiency in ETL processes, leveraging cutting-edge tools such as Apache Spark, Databricks, and Apache Airflow for seamless data transformation and integration.
- Excelled in SQL querying and data manipulation, showcasing a strong understanding of data warehousing concepts, Big Data, Hadoop technology, and ETL testing practices.

Company: HAVIIK AD TECH
Web Developer Intern **Aug 2020-Sept 2020**

- I worked as a full stack web developer intern and contributed to the full lifecycle of web application development starting from designing to production deployment.
- Built multiple functional UI screens in HTML, CSS, and JavaScript and learnt best coding practices followed in the industry.
- My role also entailed collaborating in team projects and discussions, aiding in the production of efficient and user-centric websites.
- Moreover, this role provided me with valuable exposure to industry norms and best practices, enhancing my practical skills in the field of web development.

Student Internship at NIT Andhrapradesh **June 2020-July 2020**

- Worked on developing AI model for face mask detection using Computer Vision and deep learning.
- Leveraged pre-trained convolutional neural network model on image data of people with and without masks.

PROJECTS

Olympic Data Analytics | Azure End-To-End Data Engineering Project **June 2023**

- Analyzing Olympic data using various tools and technologies, including Azure Data Factory, Data Lake Gen 2, Synapse Analytics, and Azure Databricks.

Flight Data Analysis using Hadoop on AWS **Dec 2023**

- Incorporated services like Amazon S3 for scalable and cost-effective data storage solutions on AWS.
- Designed and implemented an Oozie workflow for the execution of three MapReduce jobs running in fully distributed mode.
- Executed the workflow on a progressively increasing scale, starting with two VMs and gradually expanding to the maximum allowable number.
- Documented and analyzed corresponding workflow execution times at each scale, demonstrating the system's scalability.

Face mask detection and analysis using Computer Vision and deep learning **Jan 2020**

- Worked on this project during my internship at National Institute Technology-Andhra Pradesh.
- This output of the project illustrates whether a person is wearing a mask or not.
- It is based on a pre-trained convolutional neural network on images containing sets of people who are wearing masks and not.

Crop Prediction Using Machine Learning **Oct 2020**

- The main idea behind this project is to develop a system for farmers to prevent losses by considering factors like weather, soil, etc.
- It uses Random Forest Classifier and Naïve Bayes algorithm.

Emotion recognition from speech using Deep learning **Apr 2021**

- Detection of emotion in this project is done by using librosa and soundfile libraries.
- The project tested 3 models: Convolutional neural networks, Support vector machine, and MLP classifiers. Django framework is also used to connect the model.

Hand Gesture Recognition for Deaf and Dumb (Journal of Positive School Psychology) **Apr 2021**

- Constructing a machine learning model that can predict hand gestures from a camera & then turn recognized gestures into voice so that non-Deaf & non-Dumb people may understand what Deaf & Dumb people are expressing.

TECHNICAL SKILLS

Programming: C, Java, Python, MySQL, HTML, JavaScript, CSS
Operating Systems: Windows, MacOS, Linux
Skills: Machine Learning, Hadoop, Apache Spark, Microsoft Office 365(Excel, Word, PowerPoint)
Database Systems: MySQL, NoSQL
Data Engineering: Apache Spark, Apache Airflow
Cloud Platforms: Microsoft Azure
Data Visualization Tools: Tableau, PowerBI
Certifications: Machine Learning, Programming, Data Structures, and algorithm using Python Routing and switching essentials Udemy and NPTEL, Programming essentials in C, Linux Certifications from CISCO, Certification of Merit for English Proficiency from Oxford, Life Sciences Foundation Learning from Accenture.

LEADERSHIP

Leadership & Volunteering: Helped as a scribe for visually impaired students**,** Member of Women Development Cell: Organized workshops, seminars, and training sessions on topics such as women's rights, health, career development, and personal safety.