**Harish Maddala**

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**PROFESSIONAL SUMMARY**

As an experienced Data Engineer with approximately 4 years in the software industry, I specialize in the insurance domain, adept at designing and implementing data strategies that enhance operational efficiency and regulatory compliance. My expertise spans SQL, ETL processes, insurance data standards, and data analytics, with a strong proficiency in Azure cloud services and data warehousing. I am an effective communicator, capable of articulating technical concepts to diverse stakeholders, ensuring project success and stakeholder alignment. Committed to continuous learning, I stay updated with industry trends and best practices to drive innovation and excellence.

**EDUCATION**

**Southern Arkansas University, AR** Magnolia, AR Master’s in computers and information science  May 2023 - Dec 2024

* GPA: 3.74/4.00

**GVIT Engineering college, India** Bhimavaram, India Bachelor’s in computer science and engineering  June 2016 - September 2020

* GPA: 7.24/10.00

**TECHNICAL SKILLS**

* **Programming Languages:** C++, C, Java, Python, PHP, R, JavaScript, Cobol, JCL, Rexx
* **Frameworks:** Flask, PyCharm, MVC, CICS
* **Technologies:** Machine Learning, Mainframes, Data Stage
* **Web Development:** HTML, CSS, AJAX
* **Database Management:** DBMS, MySql, MongoDB, Oracle
* **Cloud Platforms:** Azure, AWS
* **ETL Tools:** Azure Data Factory, Informatica power center, IBM DataStage
* **Data Modeling:** Diagrams, Dimensional Data Modeling, Star and Snowflake Schema
* **Scripting:** Shell scripting (Linux/Unix), Python Scripting
* **Version Control:** Git, GitHub.
* **Other Tools and Technologies:** Microsoft Visual Studio, Jupyter Notebook, WinSCP, FileZilla, Anaconda, PyCharm, Apache, Docker, Kubernetes, Postman, OpenStreetMap, ServiceNow, MS Office, Eclipse, IntelliJ, Rally, Jira.

**PROFESSIONAL EXPERIENCE**

**Data Engineer** Hyderabad, India

*Tata Consultancy Services (TCS)* Jan 2021 – June 2023

***Responsibilities:***

* Specializing in regulatory reporting, development, and maintenance projects within the insurance domain for client AIG ("American International Group").
* Served as lead module developer, overseeing all aspects of development activities, including requirement gathering, analysis, code development, code review, and system, regression, and unit testing. Proficient in preparing test cases based on user requirements.
* Conducted enhancement activities, performing impact analysis and implementing code changes to existing processes in production based on service requests. Developed new data pipelines for reporting data in required formats from SQL databases.
* Demonstrated expertise in reporting activities, writing timely SQL queries to fetch reports from the database based on user requests while meeting SLA requirements. Implemented automation activities, generating and sending reports directly using scripts and ETL processes.
* Managed deployment activities, including ETL process automation using technologies like MuleSoft, creation of data integration documentation, and obtaining necessary approvals for deployment.
* Monitored scheduled batch jobs for successful completion, promptly addressing any issues with online jobs. Proficient in handling abends, writing overrides in case of job failure, and updating or altering databases using SQL commands to rectify problematic data.
* Experienced in ServiceNow and Agile methodologies, efficiently managing service requests and incidents within SLA guidelines and updating Agile dashboards for various phases of development.
* Created the visualization layer in Tableau and PowerBI, generating interactive dashboards to present data metrics to stakeholders and guide strategic risk decisions.
* Actively participated in migrating applications from Mainframe to ETL software.

**Full Stack Developer**  Hyderabad, India

*VTSRN Systems* June 2020 – December 2020

***Responsibilities:***

* Led the development and enhancement of the ONEDHAN project for VTSRN Systems, utilizing web development technologies like AWS, Html, JavaScript, PHP, AJAX, SQL, and DBMS technologies.
* Collaborated closely with cross-functional teams to gather requirements, design technical solutions, and ensure seamless integration with existing systems.
* Developed and maintained APIs to facilitate communication between ONEDHAN and other applications.
* Wrote efficient SQL queries and managed databases to store and retrieve data effectively.
* Utilized Postman for API testing and validation to ensure reliability and scalability.
* Deployed and managed ONEDHAN on Azure cloud infrastructure, ensuring optimal performance and scalability.

**ACADEMIC PROJECTS**

**Project Disha**

* Developed and implemented the Disha project, a machine learning model designed to predict the security status of a given location using previous crime records.
* Utilized Python programming language and Flask framework within PyCharm to create a web environment hosted on Jupyter Hub, providing an interactive platform for the Disha project.
* Employed logistic regression, Naive Bayes, and Linear SVC algorithms to train the machine learning model, leveraging their respective strengths in classification tasks.
* design the machine learning model and ensure its accuracy and effectiveness.
* Utilized OpenStreetMap to map affected locations and visualize the predicted security status, enhancing the interpretability and usability of the Disha project.
* Visualizing data by using clustering algorithm k means and mapping boundaries to get data in given location.

**California Housing price prediction**

* Developed a model to predict the housing price in California using machine learning algorithms.
* Achieved high accuracy rate using logistic regression algorithm by hyper parameter tuning.
* Cleaning data by Handling null values and Feature engineering.
* Pattern recognition using k nearest neighbors’ algorithms and elbow curve.

**LEADERSHIP EXPERIENCE**

**GVIT Tech Festival**

Bhimavaram, India

March 2017 – March 2019

*Organizer*

* Organized and coordinated the GVIT Techfest for three consecutive years at Gvit Engineering college, overseeing all aspects of event planning and execution.
* Collaborated with fellow organizers to develop event themes, schedule activities, and coordinate logistics to ensure a successful and engaging event.
* Managed communication with participants, sponsors, and vendors, addressing inquiries, providing information, and securing necessary resources for the event.
* Recruited and supervised volunteers to assist with various tasks during the Techfest, delegating responsibilities and ensuring smooth operation throughout the event.
* Facilitated workshops, competitions, and other activities as part of the Techfest program, ensuring a diverse and enriching experience for attendees.

**HONORS & INVOLVEMENT**

* Azure 900 certification from Microsoft.
* Completed 2 months of internship at Codevita in Machine learning using python at Osmania University.
* Completed 1 month internship at Grandhi software solutions on Open Street Map and Natural Language processing, Hadoop and UI path automation.
* Awarded 1st prize at DNR Tech Fest 2k17 in CPP coding challenge.
* Content creator with active channel in YouTube with 4.5K subscribers.