LOHITH VARMA DOMMARAJU

lxd60600@ucmo.edu — (913) 413-4280 — in linkedin.com/in/lohithvarma — ○ github.com/lohithvd

EDUCATION

University of Central Missouri   Aug 2023 – May 2025
Master's in Computer Information Systems and Information Technology   *Warrensburg, MO*

Amrita School of Engineering   Jul 2019 – Jun 2023
Bachelor's in Electronics and Computer Engineering   *India*

CERTIFICATIONS AND TECHNICAL SKILLS

- **Programming Skills:** Python, SQL, R, MATLAB

- **Data Analysis Tools:** Tableau, Power BI, Advanced Excel

- **Project Management:** Agile, JIRA, MS Project

- **Cloud Deployment:** AWS (EC2, S3, CodePipeline, CodeBuild), Docker, Kubernetes

- **Certifications:** Data Science (IIT Bombay), Python Full Course (Udemy)

ACADEMIC PROJECTS

Smart Factory IoT Data Analysis System   Jan 2024 – Aug 2024
- Formulated IoT data pipelines for manufacturing workflows, cutting data retrieval latency by 25% and elevating real-time insight generation.
- Devised interactive Power BI dashboards to track equipment performance, enabling timely interventions and lifting operational throughput by 15%.
- Incorporated predictive ML algorithms for advanced fault detection, reinforcing manufacturing reliability by 20%.

Tokyo Data Set Analysis Project   May 2023 – Sep 2023
- Extracted data from GitHub and stored it in Azure Data Lake Storage Gen2 using Azure Data Factory, ensuring efficient and scalable data management.
- Transformed and processed data in Databricks, optimizing data workflows and enhancing data quality for comprehensive analysis.
- Utilized Synapse Analytics for in-depth data analysis and Power BI for visualization, delivering actionable insights and interactive dashboards.

Oral Cancer Detection Using Machine Learning   Aug 2022 – Jun 2023
- Engineered a Python-driven ML solution achieving 97% detection accuracy, propelling early diagnosis success rates.
- Implemented a streamlined GUI with TKinter and leveraged Neighborhood Component Analysis, trimming redundant features by 84%.
- Shortened clinical decision cycles by 20% through automated classification and prompt anomaly alerts.

WORK EXPERIENCE

Student Worker   Jan 2024 – Present
University of Central Missouri   *Warrensburg, MO*
- Guided faculty in designing predictive analytics models using Python and machine learning (regression, clustering), improving forecasts for resource planning by 15%.
- Explored automation tools like Chef, Puppet, and ServiceNow, reducing deployment overhead by 40% through structured configuration management.
- Integrated AWS CodePipeline and CodeBuild for unit testing triggered by GitHub commits, slashing testing cycles from 3 hours to under 30 minutes.
- Pioneered Stable Diffusion research to expand ML model training data, enhancing robustness and coverage across university projects.

Software Engineer Intern   Jan 2023 – Jul 2023
Soft Signia Tech Solutions   *India*
- Analyzed IoT data residing on company servers to generate real-time production insights, boosting operational efficiency by 25%.
- Developed data-handling utilities with React, Node.js, and MongoDB, accelerating retrieval speeds by 20%.
- Designed dynamic dashboards for IoT analytics, reinforcing data integrity and reliability by 20%.