Madhuri Malyala

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Education

Florida State University   **Aug 2023 – May 2025**
Master of Science in Interdisciplinary Data Science, CGPA - 3.958/4   *Tallahassee, Florida*

Anurag Group of Institutions   **June 2015 – Apr 2019**
Bachelor of Technology in Electrical and Electronics Engineering, CGPA – 9.62/10   *Telangana, India*

Technical Skills

Programming: Python, R, React JS, Node JS, Java Script, SQL, HTML, CSS, C, VB Script, XML.
Frameworks: NumPy, Pandas, Bootstrap, Material UI, scikit-learn, TensorFlow, PyTorch
Databases: MySQL, Oracle, MongoDB, DB2.
Tools and Others: Git, Wandb, Amazon Bedrock, Tableau, Microsoft Azure, Jupyter Notebook, IBM infosphere, Data Stage, Linux.
Technologies: Machine Learning, Generative AI, Applied Regression Analysis, Data Mining, Web Technology
Certifications: Microsoft Azure Fundamentals AZ900, Microsoft Security, Compliance, Identity fundamentals SC900.

Work Experience

Data Engineer Intern| *Information Technology Services, Florida State University*   **Oct 2024 – Present**
- Supporting data pipeline development and ETL processes & assisting in data quality assessments and database management.

Research Assistant | *Bridge Transformer Project, Florida State University (Florida, United States)*   **Oct 2023 - Present**
- Working with researchers to develop enriching learning experiences for children using transformer architecture; project selected for presentation at the SSSR Research Conference in Copenhagen, July 2024.
- Implemented the Wandb Artifacts system for efficient model checkpoint management and participated in rigorous testing to optimize the learning model with a focus on cognitive development.

Data Science Intern| *EliteUS Software Solutions (New Jersey, United States)*   **June 2024 – Aug 2024**
- Developed ML/AI models, upgrading from Mistral to LLaMA 3 to enhance & optimize medical query response accuracy of chatbot.
- Integrated RAG and memory components in the chatbot, creating a React UI to streamline backend for better user experience.

Senior Systems Engineer | *Infosys Limited (Hyderabad, India)*   **Dec 2021 – Aug 2022**
- *MERN Stack developer*: Website development using React JS, Python and MongoDB. Implemented masking with IBM Infosphere.
- *Client Collaboration:* Partnered with clients to address their business needs and delivered tailored solutions.
- *Training & Documents*: Created Manuals and conducted training sessions to educate colleagues on the new systems.

Systems Engineer | *Infosys Limited (Chennai, India)*   **Feb 2020 – Dec 2021**
- *Data Masking Expertise:* Implemented data masking techniques using IBM Infosphere across SQL, DB2 and Oracle databases.
- *Automation Script Development:* Created automation scripts in Python, VBScript and demonstrated proficiency in C Programming.
- *Full-Stack Development:* Designed and developed website UI with React JS, while building the backend using Node API and Python.

Systems Engineer Trainee| *Infosys Limited (Mysore, India)*   **Oct 2019 – Feb 2020**
- *Training & Team Project:* Completed intensive training in Python, SQL, MERN stack, JavaScript, HTML, CSS, Bootstrap, and developed a full-fledged e-commerce website in a team of four, enhancing business communication and creative design thinking.

Projects

Dynamic Pricing Factors in the Paris Housing Market | *Florida State University*| R   **Jan 2024 – May 2024**
- Analyzed real estate data to model property values, revealing that square footage and amenities are key price determinants.

Multivariate Time Series Forecasting for Drought | *Florida State University | Pandas, Tensor Flow* **Aug 2023 – Dec 2023**
- Conducted statistical and geospatial analysis; developed LSTM models for accurate drought predictions on a 0–5 scale.

Economic Load Scheduling using ANN | *Anurag Group of Institutions | MATLAB*   **Nov 2018 – Oct 2019**
- Developed an Economic Load Scheduling system for electrical units using ANN to optimize outputs for minimal cost by reducing the time complexity and assist with non-linear equation solutions, and also worked closely with professor on project thesis.

Electrical Power Distribution Project| Nuclear Fuel Complex, India   **May 2018 - July 2018**
- Analyzed the electrical power distribution network, evaluated equipment specifications and protection schemes to enhance system reliability and safety, ensuring uninterrupted power supply for industrial operations.

Extracurricular

Amateur Writer: Authored novels, poems, short stories, publishing in progress   **Dec 2017 - Present**