

# SRINIJA DHARANI

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## EDUCATION

### FLORIDA STATE UNIVERSITY

Masters in Computer Science – GPA 3.667

Tallahassee, FL

Aug 2023- May 2025

Relevant Coursework: Software Engineering, Advanced Database Systems, Advanced Data Science, Computer Architecture, Artificial Intelligence, Bioinformatics Sequence Analysis, Analytical Methods in Computer Science

## SKILLS

**Languages and Databases:** C, Java, Python, HTML5, CSS3, JavaScript, SQL, MongoDB, CNN, RNN, DNN.

**Frameworks:** React.js, Node.js, Django, Flask, Tensorflow, OpenCV Lib, YOLOv5, PyTorch, scikit-learn, Keras, XGBoost/LightGBM, AWS Lambda, AWS, PyTest.

**Tools:** Git, GitHub, GitLab, AWS, PGAdmin, Microsoft Azure, Apache Hadoop, Apache Spark, WordPress, JIRA.

## WORK EXPERIENCE

### INOVALON

Associate Software Engineer Intern

Tallahassee (Remote)

Jun 2024 – Aug 2024

- Improved Provider Workforce Management System, reducing mean error rate by 0.5% through hyperparameter tuning.
- Developed 50+ unit tests for Payer Unify Optimizer, enhancing robustness and dependability.
- Increased false positive capture by 4% in Unify Optimizer by identifying and fixing codebase issues.
- Analysed 150+ AWS Comprehend Medical instances, gaining insights into Unify Optimizer performance.
- Experimented with AWS Lambda functions to migrate the existing codebase of over 4000 lines of code into Lambda functions and handler on AWS.

### TATA ELXSI

AI Intern

India (Remote)

May 2022 – Aug 2022

- Engineered a state-of-the-art system, IRIS, utilizing innovative algorithms to identify anomalies in vaccine bottle seals; achieved approx. 20% reduction in faulty seals, guaranteeing the safety and effectiveness of vaccines for over 100,000 end-users.
- Improved accuracy in industrial settings through the application of AI-driven quality control techniques, demonstrating substantial expertise in AI integration in IRIS.
- Built a system with over 2000 lines of code to monitor real-time interactions between workers, construction equipment, and machinery, ensuring adherence to established safety protocols and procedures.
- Coordinated to the team's successful participation in the Hannover Messe Exhibition 2022, showcasing the anomaly detection system, IRIS.

## PROJECTS

### CHATGPT – DEVELOPER ANALYSIS

Aug 2023 – Dec 2023

- Extracted actionable insights from the DevGPT data, containing over 17,000 records of developer interactions with ChatGPT, to drive data-informed improvements and strategic decision-making.
- Analyzed and interpreted user query data to identify patterns between complexity and ChatGPT interaction length; actionable insights informed AI optimization strategies.
- Analyzed developer queries for ChatGPT; revolutionized prompt formulation techniques, leading to more precise and practical ChatGPT interactions.
- Demonstrated valuable insights into the AI model's behavior and potential applications.

### MULTIPLE DYNAMIC OUTLIER-DETECTION FROM A DATA STREAM

Aug 2023 – Dec 2023

- Implemented the MDUAL algorithm authored by Yoon that outperforms traditional brute-force approaches in outlier detection, achieving a 92.3% increase in effectiveness.
- Conducted comprehensive performance tests, revealing that the newly developed algorithm operates with markedly higher speed (216-221 times faster) and reduced memory usage (11-13 times less) than existing state-of-the-art outlier detection algorithms.

### PREDICTION OF DIABETES USING MACHINE LEARNING

Dec 2022 – Mar 2023

- Developed and implemented an advanced predictive model leveraging LightGBM and KNN algorithms to analyze the Pima Indians Diabetes Data, identifying individuals at high risk for diabetes with a precision rate of 90.3% and enabling early intervention strategies.
- Tested the data against Logistic Regression, Gaussian NB, RandomSearch + LightGBM which achieved 80.51%, 78.57%, 89.6% accuracy respectively.

## ACCOMPLISHMENTS

**Positions of Responsibility:** GitHub Campus Expert (1 of 88 students globally), President of Entrepreneurs' Club GITAM (India); Microsoft Learn Student Ambassador.