

# Aadhitya Varshan Durgadevi Vijaisenthil

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## EDUCATION

University of Florida | **B.S. in Data Science** | Gainesville, FL

Spring 2026

**Relevant Coursework:** Programming Fundamentals 1, Programming Fundamentals 2, Applications of Discrete Structures, Intro to Computational Math with Python, Introduction to Statistics I, Computational Linear Algebra, Regression Analysis, Intro to Probability, Data Structure and Algorithms

## EXPERIENCE

**Data Engineering Intern (Python, Tableau)** | Lockheed Martin | Orlando, FL

July 2025 – August 2025

- Integrated multi-source production and equipment data into Python-driven algorithms, pipelines, and Tableau dashboards for real-time and historical analysis, improving process control and cutting coating run failures, saving \$58K annually.
- Optimized workflows slashed engineering time by 90%, driving major labor cost savings and operational efficiency gains.

**Backend Developer (Flutter, Node.js)** | Build Up | Orlando, FL

August 2023 – November 2023

- Worked with customers to build, test, and optimize fintech app features, resulting in 10 new local businesses joining the platform and expanding digital payment adoption.
- Partnered with merchants to streamline onboarding and transaction processes, enabling faster go-live and improved customer payment experiences.

**Data Analyst (React Native, Python)** | Dartexon | Orlando, FL

September 2022 – December 2022

- Implemented automated data extraction using PyTesseract and OpenCV, reducing manual entry time by 50%, and built a React Native dashboard to visualize shipping data for real-time logistics tracking.
- Conducted data analysis on the quantifiable shipping data using pandas, providing valuable insights to optimize logistics and improve overall supply chain management.

## PROJECTS

**LLM Agent Extraction of SICU Patient Information from EHR Database** | UF AI Scholars Program

February 2025 – Current

- Using the IDEALIST dataset in OMOP format to develop a large language model (LLM) system that extracts and synthesizes clinically relevant data from structured EHR databases in real time.
- Applying Retrieval-Augmented Generation (RAG), SQL querying, and advanced prompt engineering to identify abnormalities, summarize care plans, and answer clinical questions, aiming to improve clinician productivity, patient safety, and decision-making accuracy in SICU settings.

## EXTRACURRICULARS

**Project Director** | Data Science and Informatics Club | University of Florida

May 2025 – Current

- Responsible for managing multiple data science projects, coordinating cross-functional student teams and guiding them in applying machine learning, data visualization, and statistical analysis to real-world datasets.
- Organized workshops, hackathons, and industry collaborations, expanding technical skills, securing project sponsorships, and increasing the club's visibility on campus.

**Internal Vice President** | Data Science and Informatics Club | University of Florida

May 2025 – Current

- Oversee club operations, member engagement, and event execution, ensuring smooth coordination between leadership teams and active project groups.
- Collaborate with the executive board to plan strategic initiatives, secure guest speakers, and expand partnerships that enhance the club's technical and professional development opportunities.

## SKILLS

**Programming Languages:** Python, C++, SQL, R, JavaScript, HTML, CSS, Dart, MATLAB

**Frameworks/Libraries:** Pandas, NumPy, Matplotlib, Seaborn, OpenCV, PyTesseract, PyTorch, TensorFlow, Scikit-learn, React, React Native, Flask

**Software:** MySQL, Google Functions, Firebase, Excel, Tableau, Power BI, Jupyter Notebook, Git/GitHub, Google Colab

**Certifications:** MIT MicroMasters Program in Supply Chain Management (Supply Chain Analytics, Supply Chain Fundamentals)

**Data Science & Analytics:** Data Cleaning, Feature Engineering, Statistical Analysis, Machine Learning, Deep Learning, NLP, Predictive Modeling, Model Evaluation, Time Series Forecasting, Data Visualization