

NANDHINI MURALIDHARAN

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Summary

Recent Data Science graduate from Florida State University with a solid foundation in Python, machine learning, and statistical modeling. Previously contributed to CI/CD automation, version control, and AI-driven internal tools at TCS. Now transitioning into a Python Developer role focused on backend integration, REST APIs, and GenAI. Quick learner, hands-on, and eager to build scalable, real-world solutions

Education

Florida State University

Master of Science in Data Science, Current GPA: 3.871/4

August 2023 - May 2025

Tallahassee, Florida, USA

SASTRA Deemed to be University

Bachelor of Technology in Computer Science and Engineering, CGPA: 7.50/10

June 2017 - July 2021

Thanjavur, Tamil Nadu, India

Technical Skills

Programming Languages: Python, R, SQL, C++

Data Science Tools: Pandas, NumPy, Matplotlib, Scikit-Learn, Keras (Basic), Jupyter Notebook

Developer Tools: Git, GitHub, Jupyter Notebooks, RStudio, VS Code, Eclipse

Experience

Backend Python Developer (Client: Citi)

Tata Consultancy Services (TCS)

October 2025 - Present

Manhattan, New York, USA

- Developed Python scripts to ingest, parse, and normalize multi-file supervision call datasets (request/response, summary, findings, sentiment, transcript) and automate prohibited-word detection using text-processing and regex logic.
- Supported cross-functional Citi teams by building reusable backend utilities for data validation and compliance checks across dynamic text-based workflows.

Volunteer Research Assistant/Intern

Florida State University - National MagLab

January 2025 - March 2025

Tallahassee, Florida, USA

- Applying machine learning techniques to improve the efficiency of ICR applications.
- Exploring AI-driven methodologies for data analysis and optimization in geosciences.

Developer (Client: Statefarm)

Tata Consultancy Services (TCS)

August 2021 - Present

Chennai, Tamil Nadu, India

- Maintained version control using Git and collaborated with cross-functional teams to implement CI/CD automation improvements.
- Supported internal teams by writing Python scripts to automate simple tasks such as data cleaning, file processing, and report generation.
- Assisted in developing a small-scale proof-of-concept (PoC) dashboard and creating insightful visual analytics using Pandas and Matplotlib for internal demonstration.
- Participated in internal knowledge-sharing sessions and upskilling tracks focused on AI/ML fundamentals, including use cases in enterprise automation.

Intern

Hewlett-Packard (HP Inc.)

February 2021 - August 2021

Bangalore, Karnataka, India

- Conducted testing and enhancements for the Smart EDI License Portal using .NET and JavaScript, ensuring system reliability and UI/UX improvements.

Key Projects

Pokemon Battle Analysis | R, RStudio

- Currently rebuilding this project to explore regression techniques (Linear, Lasso, Ridge) for predicting battle outcomes and strategy optimization.

Sign Language Translation | Python, Jupyter Notebook, Google Colab

- Rewriting a CNN-LSTM-HMM-based model to translate German Sign Language videos to English text; focusing on data preprocessing, model structure, and evaluation.

Certifications

REST APIs with Flask and Python | *Udemy*

GenAI for Developers – Build LLM-Powered Apps | *Coursera*

Machine Learning A-Z: Hands-On Python and R in Data Science | *Udemy*

Machine Learning Foundations: Case Study | *Coursera*

Heart Disease Prediction - Logistic Regression | *Code Quest*

Python for Data Science, AI and Development | *Coursera - IBM*