Anirudh Iyer

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B.S. Computer Science
Expected 2025
Georgia State University,
Atlanta, GA

SUMMARY

Passionate and driven computer science student at Georgia State University with strong Python and data science principles proficiency. With hands-on experience in machine learning, predictive modeling, and data-driven algorithms, I aim to transition into AI/ML roles, data architecture, and analytics. My problem-solving skills and ability to lead and collaborate in team environments make me a strong asset for solving real-world challenges using data-driven approaches.

SKILLS

Python | TensorFlow | Pandas | NumPy | Matplotlib | Scikit-learn | Data Architecture | Data Analytics | Data Visualization | Predictive Modeling | AI/ML Algorithms | Exploratory Data Analysis | SQL | MySQL | PostgreSQL | Linux | Git

PROFESSIONAL EXPERIENCE

Instructor | Eye-Level Learning, Cumming, GA
May 2022 – August 2024

- Delivered personalized tutoring to students, focusing on mathematical and logical thinking.
- Achieved measurable improvements in student performance by adapting lessons to individual learning styles.

EDUCATION

Georgia State University, Atlanta, GA

Bachelor of Science in Computer Science | 2021-2025

Relevant Coursework: Python, System-Level Programming, Discrete Mathematics, Artificial Intelligence, Data Structures, Operating Systems

ACADEMIC PROJECTS

Marine Snail Age Prediction via Machine Learning
April 2023

- Led a 3-person team to develop a machine learning model to predict the age of abalone using physical measurements (weight, height, etc.) with features engineered for maximum accuracy.

CERTIFICATIONS

- **Data Science and Machine Learning** | MIT Schwarzman College of Computing (May 2023)
- **Fundamentals of Software Development** | Microsoft Technology Associate (April 2021)
- **Database Management Systems** | Udemy
- **Harvard CS50: Introduction to Python** | edX

SEMINARS/ CONFERENCES

- **AWS AWSome Day ATL 2022**
- **AWS Gen AI Conference ATL 2024**

- Utilized algorithms such as regression models and decision trees, achieving a significant correlation between predictions and ages.

Movie Recommendation System
March 2023

- Designed and implemented a collaborative filtering-based recommendation system to suggest movies based on user ratings, employing matrix factorization to improve recommendation accuracy.
- Improved system performance by incorporating advanced filtering techniques.

Hotel Booking Cancellation Prediction
February 2023

- Analyzed booking data to determine factors contributing to cancellations, utilizing techniques like exploratory data analysis, logistic regression, support vector machines, and random forest regression.
- Created a predictive model that allows hotels to mitigate potential cancellations and optimize refund policies.

AI-Driven Carbon Footprint Reduction in Transportation
September 2024 (In Progress)

- Developing an AI-based system to reduce the carbon footprint of transportation networks by optimizing logistics and energy usage.
- Implementing machine learning models such as decision trees, random forests, and neural networks to analyze real-time data and propose actionable solutions to minimize environmental impact.
- Leveraging AI techniques such as pattern recognition and predictive modeling to enhance sustainability in transportation while formulating a framework to reduce CO2 emissions.

Audio Stem Separation Using Hybrid Demucs
September 2024 (In Progress)

- Building an AI-based tool for audio stem separation using the Hybrid Demucs model, focused on isolating drum and percussion components from songs.
- Enhancing drum separation features by training the model on personal datasets and stems, expanding its accuracy and capabilities.
- Deploying the model on a server, accessible remotely via a website where users can upload audio files (WAV, MP3, FLAC, OGG/Vorbis) to receive individual drum stems.
- Leveraging cloud and remote access technologies like NordVPN Meshnet to ensure the server can be accessed from anywhere.