NITHIN RAJULAPATI
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Portfolio: https://nani1-glitch.github.io/nithin_rajulapati/

Objective:

Highly motivated and dedicated Master's student specializing in Artificial Intelligence (AI) with a solid foundation in computer science and machine learning. Possesses a strong passion for cutting-edge technologies and a deep understanding of AI algorithms, data analysis, and software development, also skilled in problem-solving and critical thinking, with a proven ability to apply theoretical knowledge to practical applications. Committed to leveraging AI techniques to improve efficiency and solve complex problems in various domains. I have also served as an instructor for Python programming on Udemy while I am pursuing my bachelor's.

Professional Experience:

INSTRUCTOR — Jan 2021 – March 2023

Instructor for Python programming language

- A very experienced instructor with a proven track record of teaching Python programming to students at Udemy.
- Regularly updated course to ensure content to ensure it remains current with the latest Python versions and industry trends.
- The extensive Knowledge of Python possesses a deep understanding of Python programming language, including its syntax, libraries, and frameworks.

Education:

Chicago State University, Chicago, USA — Expected Dec - 2025
Masters in Computer Science

Sathyabama Institute of Science and Technology, Chennai, INDIA — June 2019 - May 2023
Bachelor of Engineering in Computer Science, CGPA 8.23

Skills:

- **Programming Languages:** Python, Swift, HTML, JavaScript, CSS.
- **Technical Skills:** Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision, Cyber Security.
- **Soft Skills:** Problem-solving, Communication, Adaptability, Self-Motivated, Dedicated and Quick Learner.
- **Machine Learning and Data Analysis:** Logistic Regression, Random Forest, Decision Trees, Naive Bayes, Support VectorMachine(SVM), Numpy, Pandas, Multi-layer Perceptrons(MLP).
- **Artificial Intelligence:** AI Algorithms, Reinforcement Learning, Q-learning, Genetic Algorithms, Reinforcement Learning (RL), Clustering techniques.
- **Database:** SQL, SQLite, Relational Databases.
- **Tools:** Jupyter, Git, NLTK, Anaconda, Xcode.
- **Operating System:** Linux, MacOS, Windows
- Proficient in Microsoft Office(Word, Excel, PowerPoint), Keynote, Numbers, and Pages.

Projects:

- Air Cursor Control:

  This innovative project involves harnessing the power of Mediapipe and OpenCV to create an intuitive cursor control system through hand movements. The system focuses on tracking the index finger for movement of the cursor and detecting a pinch gesture with the thumb and index fingers for accurate selection actions; the rest is left for the user to configure as per the requirements.

- LLM for Logging:

  This work leverages advanced Language Models, in particular BERT, to better enable processing, classification, and analysis of log data. Leveraging the power of BERT should make the handling of log data more efficient and insightful. The repository shows how such techniques can be used to increase the general management and understanding of log data.

- Live Language Translator:

  This project is a real-time voice translation application that translates spoken language into a user-selected language, displaying the text on a screen and also playing the translated audio. This project is developed using Python with Flask for the backend and HTML, CSS, and JavaScript for the front end.

- For more projects and detailed code, please visit my GitHub profile.