Nishil Faldu

Software Engineering Intern at Digital Scholarship Center

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Relevant Experience

Software Engineering Intern @ DSC
January 2022 - April 2022 // Cincinnati, OH

- Architected and implemented an AI-powered fullstack web application, which helps user compose poetry by entering first few lines
- Contributed extensively to modelofmodels.io, a platform for collaborative language research and teaching, to create new learning outcomes
- Proposed and implemented a scalable solution for visualization of large text datasets with THREE.js - text vectorization with BERT embeddings, categorization with LDA

Computer Vision Research Intern @ IRAS
August 2021 - November 2021 // Cincinnati, OH

- Aided a graduate student to develop an autonomous robot that can open doors and find nearest electrical outlet to recharge
- Augmented, cleaned, processed, and labeled images with a Python Script to generalize to situations in real life during door and plug localization
- Coordinated with a professor to train and fine-tune different versions of YOLO model using PyTorch and TensorFlow

Modeling and Simulation Intern @ Procter and Gamble
May 2021 - August 2021 // Cincinnati, OH

- Modeled and simulated one of the automatic plants of P&G with Tecnomatix - Plant Simulation software - increasing production by 10%
- Analyzed and visualized automated guided vehicles data through excel charts to optimize production systems and logistical operations
- Improved logic for 52 AGVs to control their navigation, traffic management, and charging reducing congestion by 20%

Machine Learning Intern @ DSC
January 2021 - December 2021 // Cincinnati, OH

- Developed and maintained code for cleaning and pre-processing text datasets primarily using NLTK and Gensim
- Built and deployed a Vader Sentiment, custom TensorFlow Sentiment model on AWS EC2 instance using TensorFlow Serving server and Flask application
- Generated embeddings of text datasets with BERT Tokenizer and applied unsupervised ML algorithms like KMeans, UMAP, PCA, TSNE

Involvement

Resident Advisor @ University of Cincinnati
January 2022 - Present // Cincinnati, OH

President @ Google Developer Student Club
July 2021 - April 2022 // Cincinnati, OH

Social Media Chair @ IEEE
April 2021 - April 2022 // Cincinnati, OH

Outreach Chair @ International Partners and Leaders
April 2021 - April 2022 // Cincinnati, OH

Web Developer @ RevolutionUC Hackathon
September 2021 - February 2022 // Cincinnati, OH

Marketing Director @ MakeUC Hackathon
June 2021 - October 2021 // Cincinnati, OH

Skills

Programming Languages
Python, C++, JavaScript (ES6), HTML, CSS, Bash, Java, MATLAB, Octave, LabVIEW, SQL, R

Libraries and Frameworks
React, jQuery, Bootstrap, Node.js, Express, Flask, Django, TensorFlow, ScikitLearn, NLTK, Gensim, Numpy, Pandas, Matplotlib

Tools and Platforms
Git, AWS, Netlify, Heroku, Firebase, MongoDB, Colab, Nginx, Uwsgi

Education

B.S. Computer Science
August 2019 - Present // Cincinnati, OH

- University of Cincinnati
- GPA 4.0/4.0
- Mantei/Mae Award, Dean's List
- International Outreach & Global Scholar

Projects

React Dashboard
Minimal web app for visualizing RevolutionUC Hackathon statistics. View live, yearly, and trends data on a clean dashboard for data-driven marketing

Campaign Website
Netflix-themed presidential campaign website for University of Cincinnati that lets users see platform points explained in form of videos

Save The Roadster
A C++ game where you "save" Elon Musk's prized Tesla Roadster from being sent into space from your Command Line Interface

In/Site
An Electron app that compares user-input with a "truth" database of COVID facts and states whether the input statement is true or false, with an embedding visualization

Interests

Traveling, reading, hiking, cafe-exploring, volleyball, squash