Simon Markus

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Objective

- Highly motivated to gain additional practical experience in contemporary fields such as data analytics, machine learning, and software engineering. Looking for an internship where I can use my skills to solve real-world problems.

Education

BACHELOR OF SCIENCE | FALL 2021 | SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE

- Major: Computer Science
- Activities: Association for Computing Machinery.

Experience

DATA SCIENCE INTERN | THINGS SOLVER | SEPTEMBER 2020 – CURRENT

- Working with a RFMT Segmentation problem in Python using a csv file that contained over 4,000 customers and each of their 4 features (purchase frequency, days from recent purchase, days from first purchase, and total revenue).
- Applied EDA and unsupervised k-means clustering in Python to categorize customers into clusters.
- Applied supervised learning, random forest classifier to relate the clusters with the features.
- Developed a Flask app for users to enter their 4 features and then get a label returned to them, such as what category of customers that customer belongs to. Link: https://customer-category-service.herokuapp.com/ (may take some time to load).

Personal Projects

TWEET BINARY CLASSIFIER USING MACHINE LEARNING IN PYTHON

- Applied a binary classifier supervised machine learning algorithm for a project that involved streaming tweets from the twitter API that contained a specified keyword related to a current disaster.
- Classified each of the tweets as relevant or non-relevant based on the information on the condition of that disaster.

TWITTER DISASTER RESPONSE SOFTWARE DEVELOPMENT GROUP PROJECT

- The goal of this project was to create a tool that leverages Twitter as a social sensor to collect, analyze and visualize disaster related tweets using Python.
- My part in the project was to use the twitter API to pull recent tweets that contained a name of a current disaster and store the tweets in a mongoDB database after being processed.
- Link: https://ranamerp.github.io/Tweettragedy/#/

PERSONAL WEBSITE DEVELOPMENT

- Website that I created using HTML, CSS, JavaScript, Nodejs, MongoDB and a dash of Angular implemented. Link: https://simon-website.herokuapp.com/

SOIL TEMPERATURE FORECASTING USING SUPERVISED MACHINE LEARNING IN PYTHON

- Applied linear regression and deep learning artificial neural networks to predict soil temperature one week in advance based on 10 observed environmental and climatic features.
- The temperature along with soil moisture forecasts can help crop scientist and producers in achieving best decision regarding planting, fertilizer application and irrigation.

Skills

- Flask, Jinja, Python, pandas library, sklearn library, TensorFlow, Java (data structures, OOP, algorithms), C/C++, machine learning with TensorFlow, MongoDB, Twitter API, HTML/CSS/JavaScript, Nodejs, Expressjs, Pycharm, Eclipse, MySql.

To the hiring manager:

My name is Simon Markus and I am a fourth year (Senior) Computer Science student at Southern Illinois University in Carbondale, Illinois, USA. With much enthusiasm, I like would to apply for an internship at your company to work on very interesting projects.

After researching, I have chosen that this is the right place that I would love to have an internship with, as I am inspired to apply my skills and knowledge.

My resume is attached for your review. Looking forward to hearing from you.

Sincerely,

Simon Markus

Contact info:

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