Indrajith Indraprastham

A curious person who likes to learn new things and tinker with computer programs.

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SKILLS

Web Development

- Experienced in building scalable web applications and REST APIs.
- Experienced in frameworks such as Django, Jinja2 and Bootstrap.
- Worked with Distributed Datasets and Mysql.
- Experienced in data scraping and data ingestion.
- Experienced in using Git, AWS, Google App Engine, Openshift and Heroku for deploying and computing.

Data Science and Machine Learning

- Experienced in analyzing large scale data and using advanced statistical and machine learning models to provide meaningful insights and business intelligence.
- Skilled in building models using machine learning. Worked with time series and sequential data.
- Worked on demand forecasting, inventory level optimization and music information retrieval.
- Experienced in using technologies such as Spark, Tensorflow, Pytorch and other frameworks such Numpy, Pandas, Scikit and Scipy.

LINKS

Github:
github.com/indrajithi

Blog:
indrajith.me

Portfolio:
indrajith.me/portfolio

Resume:
resume.indrajith.me

LANGUAGES

Python, C, Matlab, C++

EXPERIENCE

Data Engineer - *Lrnr (Pochys Ventures Inc.)*

JAN 2018 - July 2018

Data Science Consultant - *Spineor Technologies*

JULY 2017 - JAN 2018

Part-Time Freelance Developer - *Upwork*

APRIL 2011 - FEB 2014

EDUCATION

Bachelor's Degree in Computer Science and Engineering
— Adichunchanagiri Institute of Technology, Chikmagalur

Aug 2012 - July 2017

PROJECTS

Automatic Data Ingestion

- Designed the data ingestion pipeline to create 40 courses automatically.
- Scraped data from open resources and dynamic web pages.
- Written transformer to convert HTML to JSON format. Preserved the DOM structure and parsed each html tags and its attributes.
- Mapping and versioning of the resources. Used Mysql database.
- Convert neutral JSON to target HTML using Jinja2 template engine.

Question Generation Using NLP

- Created a web application using Django where users can input a text and the generate questions as output.
- Trained an attention based sequence learning RNN model.
- Used Stanford Question Answering Dataset (SQuAD) and Stanford GloVe word embeddings.

Inventory Level Optimization *—Predictive model building.*

- Demand forecasting for an Ecommerce shop with over 1 Million products.
- Analyzed large inventory datasets. Determined the rate of change and the movement of products in the inventory.
- Build statistical and machine learning models using historical data to forecast demand and optimize inventory levels.

OPEN SOURCE PROJECTS

Music Genre Classification App — *A Web app to classify music based on genres.*

- Used various machine learning classification algorithms to classify a music to six classes: rock, pop, jazz, classical , metal, hip hop.
- Used Logistic regression and Support Vector Machine.
- Made a web app using Python, Django and AngularJS.
- This project was featured on ***Github Trending*** for Python language.

Audio Spectrum Visualizer in OpenGL — *Real time audio power spectrum using OpenGL.*

- Used fast fourier transform to generate the power spectrum of an audio and visualize it in real time using OpenGL.
- This project was featured on ***Github Trending*** for C language.

Time-Spark— *A python package for time series analysis on Spark.*

- Feature to Load data from multiple CSV files in to Spark RDD
- Create a data structure with selected columns for time series analysis.
- Option to Apply filtering algorithm like ***Savitzky Golay*** for data smoothing.
- Fit a polynomial function of Nth order to the entire data or its subset.
- Find the derivative and rate of increase or decrease of the data points.

Question generation: — *Demonstration of rule based question generation using POS tags.*

A tiny web crawler: — *A basic web crawler written in python.*

Anagram Solver App: — *A web app written to solve scrambled words.*

Sudoku Solver in C++: — *A simple command line Sudoku Solver written in C++*