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.

- 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 - PRESENT

Data Science Consultant – *Spineor Technologies*
JULY 2017 - JAN 2018

Part-Time Freelance Developer – *Upwork*
APRIL 2011 - FEB 2014

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

Aug 2012 - July 2017

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.

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++*