

Vishnu Raveendran

DATA SCIENTIST · BACKEND DEVELOPER

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"Leave the world a little better the way you found it"

Summary

Backend developer and data scientist with 3 years of active and combined experience in python and data science. Constant learner with a get going attitude, backed by good analytical, logical reasoning, communication skills and design intuition. Also good with optimizing and automating tasks to achieve the best possible results efficiently. I also enjoy and encourage writing optimized, unit-tested, quality source code for the best readability and maintainability. Looking for a dynamic role in data science / deep learning / full stack / backend development.

Work Experience

Accenture

Bangalore, Karnataka

APPLICATION DEVELOPMENT ANALYST

Sep 2017 - Present

- Processes and analyze text data to derive better insights from the data and recognise the semantic patterns in the text using natural language language toolkits such as NLTK, SpaCy.
- Pre-process text data, convert them into vector forms using TF-IDF and dimensionality reduction methods such as SVD and train and test them using statistical learning algorithms such as SVM using scikit-learn.
- Build custom neural network architectures with custom loss functions and metrics using Keras and Tensorflow.
- Tune model hyper-parameters of neural network architecture to achieve better metrics using keras tuner and different tuning methods such as random search, bayesian optimization etc.
- Write clean and optimized code in python with a pylint score of > 9.
- Design and author unit-tests in python unittests with full coverage and covering boundary value conditions.
- Use inbuilt python profilers (cProfile) to analyze the performance of the code.
- Create test data in BigQuery using BigQuery python API for full end to end test scenarios.
- Test end to end functionality of kubeflow and data prep pipelines in GCP.
- Author and execute Integration Qualification test scripts.
- Author and execute automation and functional test cases.
- Design and develop tools, framework and code snippets for automation testing and enhancing test framework functionalities.

Technical Portfolio

- Have deployed application to AWS Elastic Beanstalk using AWS Code pipeline, Code build and GitHub. <https://github.com/vishnurvn/website-ds-algo-math>
- Have experience in C and C++ mainly through learning data structures and algorithms. <https://repl.it/@vishnurvn>
- Have created React apps. <https://github.com/vishnurvn/page-object-UI>
- A simple 2D top down shooter game made in godot out of curiosity <https://github.com/vishnurvn/GameGame>

Skills

Languages Python, C++, Java, JavaScript

Database MongoDB, sqlite3

Libraries Pandas, NumPy, Scikit-learn, Tensorflow, Keras, matplotlib, seaborn, Flask, Selenium, ReactJS, NLTK

Tools Pycharm, Spyder, Jupyter notebook, git, RQM, RTC, Jenkins, JIRA

Cloud Amazon S3, Lambda, API Gateway, BigQuery

Projects

PV FIRST

Worked in the data scientist team. Analyze new data and retrain existing models and create new machine learning models for client implementation. Write enhancements and bug fixes for the existing application components.

DE NOVO DRUG DISCOVERY

Developed a proof of concept on how to use deep learning techniques to generate SMILES string structures of similar drug compounds.

PAGE OBJECT FRAMEWORK

Worked as a developer in the automation testing capability team. Designed and developed a page object model automation testing framework with pytest as base.

XPATHER

Worked as a developer in the automation testing capability team. Designed and created an automation tool for fixing broken selectors during automation testing cycle.

CHAT BOT

Developed a basic retrieval based chat bot using NLTK.

CLIENT PROJECT

Worked in the functional testing team. Author and execute functional test cases. Identify application bugs and report them to the development team. Prepare test data for executing the test case.

Certifications

Coursera

DATA ENGINEERING, BIG DATA, AND MACHINE LEARNING ON GCP

March 2020

<https://www.coursera.org/account/accomplishments/specialization/certificate/QPNP2JPYZ8LH>

Education

Government Engineering College

B.E IN MECHANICAL ENGINEERING

Thrissur

Aug 2013 - May 2017

- Was a graphic designer for an auto-show
- Was a board member of the college Innovation Club