VIGNESH TALLAM

https://www.linkedin.com/in/vigneshtallam/ |IND +919380740055 | US +2035264113|vigsach@gmail.com|

GitHub Profile: **https://github.com/Vig21/**

Highly analytical individual with strong apt for learning and collaborative skills with a Bachelor's degree in Cloud computing and Big Data, seeking for an **Entry-level** position to leverage my theoretical knowledge and practical project experience to become a value add to the company. Looking to apply my programming skills and analytical thinking on data to solve real-world problems.

EDUCATION

Reva University **BANGALORE**
BS in Cloud Computing and Big Data *AUG 2022*
9.2 GPA *out of 10*

WORK EXPERIENCE

PERSISTENT SYSTEMS **BANGALORE**
Associate Cloud Engineer *SEPT 2022- Present*

- **Project**: - Client needed their application data and physical servers to be hosted in an Azure cloud environment.

  Client: Onclusive (social media analytics and public relations)

  Technology used: **Azure Networking services, Compute Services ,Azure Gateway, Pandas, NLTK**

  i. Worked closely with the Solution architects and Database team to provision services on Azure. Involved configuring Virtual networks, Subnets, Azure Firewall to enable connectivity from client's on-premise Datacenter to an Azure virtual solution.
  ii. Performed migration of the physical datacenters from multiple locations to a central virtual datacenter. Tasks included configuring subnets, network security group, firewall, provisioning of Virtual machines, Blob Storage and Data Lake.
  iii. Monitoring ,Access management, health check of applications and host uptime.
  iv. Currently working on data cleaning tasks like lemmatization, tokenization, removal of URL's, punctuations, symbols of media engagement data before it is passed to the NLP model .

AMBEE
GOOGLE TECHSTARS **BANGALORE**
DATA SCIENCE INTERN *JULY 2021-AUG 2022*

- **Project**: To identify and handle missing and outlier data in the Air Quality Pipeline
  Technology used: **AWS S3, Boto3, matplotlib, seaborn, scikit-learn**

  i. Scraped data from ESPA Air quality station via API call and filtered based on the country
  ii. Wrote scripts to collect satellite data from S3 bucket using Boto3 library.
  iii. Performed Exploratory Data Analysis on pollutant data generated by stations to compare the correlation between satellite data and station data to find missing values and outliers.
  iv. Implemented calibration techniques to build a model that makes predictions using satellite data when station data is unavailable.
  v. Interpolated station data with satellite data and analyzed the various metrics on the interpolated data which would handle missing values or station errors.

- **Project**: QA team manually tests Ambee's proprietary Air quality APIs against government station APIs to check the accuracy of the Ambee's air quality and pollutant data. This process was cumbersome, manual and time-intensive process.
  Technology used: **Python**

  i. Built python script to automate the comparison between the company's API and stations API s to compare pollutant data and precision accuracy of Ambee's Air Quality Index against station data in India, US and Europe.

ii. Configured cronjob to run the script periodically.

Benefit: This automation accelerated the testing process for the QA team by 15hours/week.

- **Project:** To provide a pollen data source for the Pollen API specific to South African regions.
  Technology Used: **Beautiful Soup, Pandas**
  i. Scraped pollen reports that consisted of pollen types, location and their risk levels from South African government websites.
  ii. Performed normal distribution on the pollen count based on NAB scale (National Allergy Bureau) to create a data source for the pollen model on which models were built and was deployed to the cloud.
  Benefit: This data set helped meet the requirements of 15 clients who were in need of SA pollen data.
- **Project:** The objective of the project was to derive insights to help an E-Commerce online clothing company whether they need to focus their effort on their mobile app experience or on a website for their clothing.
  Technology Used: Pandas, NumPy, Matplotlib, Sklearn, Regression
  i. Collected and formed a dataset of the customer details gained from the E-Commerce database.
  ii. Performed Exploratory Data Analysis to understand the correlation between the features in the dataset.
  iii. Implemented specific Machine learning and neural network algorithms to train the model using training data. Made a prediction by plotting the predicted and original data points. Made a prediction by plotting the predicted and original data points.
  Created a classification report to summarize the coefficients and derive an inference to help in the company's decision.
  Benefit: The inference helped the company focus and redirect customers to their web experience which increased the customer engagement on the site and their sales by 25%.

Research Paper: ICICTA Journal: Crop Suggestion using a Machine Learning Ensemble

Tech Blog: Interpretation of Visualizations of Soil data and Weather APIs – https://hackernoon.com/interpretation-of-visualisations-of-soil-data-and-weather-apis

How to build a weather chatbot using Real-time Data – https://ambee.hashnode.dev/build-a-real-time-weather-alert-chatbot-in-3-sections-using-weather-api

CERTIFICATES AND ACADEMIA

1. Machine Learning Bootcamp at AI Society
   Certification Code: AISOCML1AG2102
2. STAR Professional AI & ML for Business Application
   Certificate Code: STR20AIML00145445
3. Microsoft Technology Associate for Programming using Python.
   Certificate Code: 8Hy9-uSHL
4. Microsoft Technology Associate in Azure Fundamentals. (MTA)
   Certificate Code: 37945003

SKILLS & INTERESTS

Technology Skills: Cloud – AWS, Azure, Tableau; Programming Languages – Python , SQL

Citizenship Status: US Citizen