PALLAVI AYTHA SWATHI

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OBJECTIVE: To obtain an internship for Summer or Fall, 2020

EDUCATION:

Master of Science, Data Analytics, University of San Francisco, CA. **December 2020**

CGPA: 3.8 / 4

Relevant Coursework: Machine Learning, Causal Inference and Experimentation, Mathematics, Natural Language Processing, Accelerated Intro to GIS, Accelerated Intermediate GIS, Data Visualization, Institutions, Markets and Platforms.

Bachelor of Engineering, Computer Science, BMS College of Engineering, India. **May 2014**

CGPA: 8.89 / 10

Relevant Coursework: Computer Networks, Database Systems, Operating Systems, Object Oriented Programming with C++, Java Programming, Data Structures, Microprocessors, Artificial Intelligence.

PROFESSIONAL EXPERIENCE:

Software Engineer, Citrix Systems, Bangalore, India.

Software Test Engineer 2 **March 2016 - December 2018**

- Implemented automation of features of Netscaler Management and Analytics System Service (MA-Service) on the AWS. MA Service provides scalable solution to manage NetScaler deployments from centralized cloud based console deployed in AWS or Azure for Citrix products that are deployed on-premises or on the cloud.
- Contributed to the CI-CD framework to increase the automation from 54% to 56%.

Software Test Engineer 1. **September 2014 - February 2016**

- Automation of key test plans and modules to facilitate the testing process on L4-L7 protocols. Automated the usage of various tools like Error Injector; Black Widow and Trapdoor from scratch

SKILLS:

C | C++ | Python | R | Perl | HTML | CSS | JavaScript | MySQL | Web Services | Rest APIs | Web Scraping | Numpy | Pandas | AWS | Azure | NLTK | Scikit-Learn | Git | A|B Testing | Causal Inference | Esri ArcMap | Esri ArcGIS Pro

PROJECTS:

Predict dementia using Machine Learning

- Implemented Logistic Regression, Support Vector Machines(SVM) algorithms to analyse real life datasets from Japan to predict the occurrence of dementia from given daily parameters. Oversampling was also used to improve the predictions to an accuracy of 88% from 75%. This was coded using Python.

Experiment to confirm the Causal Relationship between Dog Owners and Mortality Rate.

- Designed an experiment to confirm the findings in a study that showed the positive effects of dog ownership for patients who have experienced a heart attack or stroke. Implemented regression and calculated the power using Python.

Data Visualizations and Models for Lending Club Loan Data

- Very different from the conventional commercial banks which serves as the middle man to bridge the gap of information, Lending Club uses algorithms to extract signals from the borrowers and match with potential lenders on the platform. I cleaned, processed the recent data for 2017Q1-2019Q4 and built models to depict, analyse the data using libraries in ggplot in R.

Habitat Data Analysis for Coho Salmon ranges

- Analysed various datasets to identify where to expect to salmonids and where to focus restoration efforts. Cleaned the data and joined various datasets using Python. Performed proximity analysis and kernel density analysis using Esri's software ArcGIS Pro.

Voice based coding using Microsoft LUIS API and Javascript.

- Implemented a Web-based Editor that produces Javasript Code taking in speech input after Natural Language Processing of the input at a Hackathon. The website was deployed in Azure. This was done as part of Hacktech.

EXTRACURRICULAR ACTIVITIES:

- Won the Netscaler Serviceability Hackathon by developing a real-time analyser of large Netscaler traffic files.
- Volunteer at Shower Of Hope, a program that provide clean showers and food to the homeless.