Tejaswi Tamarana

[tamaranatejaswi@gmail.com](mailto:tamaranatejaswi@gmail.com)

+1480-522-5154

**Summary**

* Worked in Python using various libraries and modules like pandas, NumPy, scikit-learn and so on.
* Proficient in machine learning and deep learning skills for multiple applications

**Technical Skills**

* Languages: Python, R, Java, SQL
* Databases: MySQL, MS SQL-Server, Oracle, Mongo DB, Teradata
* Developer Tools: Eclipse, Pycharm, Jupyter, vscode, Matplotlib, Seaborn
* Other Tools: CVS, SVN, GIT, Jenkins, Maven, Tableau, Linux, Tableau, Bitbucket
* Cloud: AWS, GCP, Azure
* AI/ML: Scikit-learn, Scipy, Pandas, Numpy, Tensorflow, NLP, NLTK, Sagemaker

**Education**

* Master’s in computer science engineering, Illinois Institute of Technology, Chicago, IL, 2011 - 2013
* Bachelor’s in Information Technology, GITAM University, Vizag, India, 2004 - 2008

**Certifications**

* + Certified Machine Learning Specialty (AWS, 2019)
  + Certified Associate in Python Programming (PCAP, 2016)
  + Certified Programmer for Java 6 (SCJP, 2012)

**Technical Experience:**

**Walden University Oct 2019 – Feb 2022**

**Data Scientist/ML Engineer**

* Developed and optimized algorithms for Student Value Stream using python.
* Cleaning, preprocessing of data, understanding insights by EDA and Hypothesis testing of data, clustering, and modeling of unsupervised data.
* Worked on classification and regression techniques of supervised data.
* Build Azure CICD pipeline to deploy ML models/Data science models.
* Created API end points in GCP to retrieve the model predicted data from Google Cloud functions and making it available to end users.
* Worked on machine learning and statistical modeling effort including building predictive models and generate data products to support customer segmentation, product recommendation and allocation planning.

**Anthem Jan 2019 – September 2019**

**Data Analyst/Scientist**

* Used python and spark to apply transformation from Data Lake (Raw zone) to application zone and generate extract files and store in S3 for vendors.
* Used shell script as a wrapper for some the jobs which are using control M jobs as a scheduler
* Scripted an ETL Pipeline on Python that ingests files from AWS S3 to Redshift Table.
* Create a python script to iterate over the directories and get the list of files pending or still lying in the inbound on unix and hdfs directory.
* Create archival script to achieve data from hdfs location to archive location and also from one cluster to another cluster.
* Compared the files using python and tables under different databases using hive.
* Exploratory data analysis using R to deep dive into internal and external data to diagnose areas of improvement to increase efficiency.
* Performed Analytics using Tableau by connecting Teradata, Hive, and Impala.

**UNCC, Charlotte, NC Oct 2017 – Dec 2018**

**Research Data Analyst (NLTK)**

* Worked on ‘Fractal Dimension of Reduced Space’ with unsupervised learning.
* Used Python scripts for conversion of Word to Vector(word2Vec) model.
* Word2vec is a particularly computationally efficient predictive model for learning word embeddings from raw text.
* Used Tensor flow to measure the success of a dimensionality reduction method in a way that can be easily applicable to large data sets.

**Bank Of America Jan 2016 – Aug 2016**

**Data Analyst**

* Extensively used Python and Spark and multiple data science packages like Pandas, NumPy, matplotlib, SciPy for Data Analysis.
* Performed Data mining, Data modeling, Data Wrangling, Data Cleansing, handled missing data, outliers, feature scaling, features engineering.
* Used Python based data manipulation and visualization using Pandas, Matplotlib clean corrupted data before generating business requested reports.
* Worked in executing SQL queries when there were errors in reports and tried to resolve the data gaps.
* Created batch data ETL process by using python and developed Data Ingestion pipelines
* Develop dashboards and reports using tableau and python that maximize use of stakeholder time and effort by providing high-value information quickly and easily.
* Used Python visualization libraries for exploration of data, multivariate of data, bivariate of data.

**Western Union July 2013 – Nov 2015**

**Programmer Analyst**

* Involved in Design, Developing, Testing, and Support of Application.
* Hibernate is used fetch data access layers and to update the information.
* Performed data analysis and data profiling using SQL on various systems.
* Developed ETL pipeline using python.
* Used SVN version controlling system for the source code and project management.
* Worked on multithreading and Object Pooling aspect of parallel processing.

**CMAP, Chicago, IL May 2012 - Dec 2012**

**Data Warehousing and Sharing Analyst - Intern**

* Create VBA programs to automatically update Excel workbooks, encompassing class and program modules and external data queries and top 20 items display in Excel Sheet by writing VBA code and using macros and formulas to speed processes and maximize accuracy.
* Writing Python Scripts to automate the process of fetching data and converting into required csv format for further uploading of files
* Creating Metadata dictionaries and checking quality of scripts
* Perform data-extraction, transformation and loading (ETL) development and programming
* Used SQL loader, external tables and import/export toolbar to load into My SQL.
* Extracting information from open data sources, maps and other available sources processing those using python scripts and loading the datasets into Metro pulse website ([http://www.metropulsechicago.org/#](http://www.metropulsechicago.org/)) contains all data about Chicago statistics and complete data about Chicago.

**Teaching Experience**

**Illinois Institute of Technology, Chicago, IL Jan 2013 - June 2013 Teaching Assistant**

* Assisted Professor Mattox Beckman for his course Programming Languages Translators
* Objective of the course is to compare the major classes of programming languages, describing their techniques, features, and styles.
* Evaluated and graded undergraduate papers in assignments, laboratory reports, midterms and final exams.
* Answer enquires to the students.
* Assist in analysis of research results and preparation of journal articles, papers, reports and chapters of books

**Pulla Reddy Institute of Technology, Hyderabad, India Aug 2008 - Nov 2010 Assistant Professor**

* Taught C, Java, SQL, Algorithms and Data Structures to students
* Conducting labs for practical’s
* Monitoring and grading students for their consistency in core courses
* Prepare special lectures and presentations for conferences and consultations
* Serve on faculty committees dealing with research, budgets, curriculum planning and requirements and staffing