**CAREER OBJECTIVE**

To work as a Software Engineer applying my knowledge in the field of testing, designing, and maintenance to cater to the specific needs of the people. I wish to work in a team of motivated individuals who wish to work towards the advancement of the company and its goals

Looking for a software Python Developer Job where I can utilize my Programming skills to Develop **Data Science /Machine Learning / Web Application (Django Rest Framework** components/System .To achieve a challenging position as a Python Programmer in a result-oriented company, where acquired skills and education will be utilized towards continuous growth and advancement.

**EXPERIENCE**

**STRONG AREAS:**

Python | SQL | Unix Data Analytics –ETL |Machine Learning Algorithm | Django Web service-REST

**Major Tools, Associated Technologies & Environment**

* Unstructured Database Used – Mongo DB
* UI Application Programming Language - HTML, CSS, JavaScript, JQuery and Bootstrap.
* Web Scraping Library : Beautiful Soup 4
* Web Framework involvement : Django REST
* BI Tool used - Tableau
* Parsing XML - **xml Schema**
* Currently working with client Elisa Telecom , Finland as **ML Engineer** for **Dynamic Optimization** - **– ml implementation on Telecom BSS Analytics**

**Technical Qualification Headlines**

**Deep Learning | Python Data Science |Big Data | Machine Learning | Django REST | Mongo DB |PySpark| ETL / Data warehousing | Business Intelligence | Unix |**

**Associated Technology** : AWS, Docker, Power BI, ETL(Data Migration), Linux, IoT, Android

**Work Experience with clients** : Worldpay,United Kingdom **|**Elisa Telecom , Finland |

**System/Vertical Worked with** : Payment analytics | Telecom OSS –Provisioning and Activation | Telecom Biiling -BSS

**Experience with Core Data Science/ML Libraries /Packages :**

PySpark| Pandas| Numpy| Seaborn| Matplotlib|Scikit Learn | Keras**|** Tensorflow| Scipy|Statsmodels| Plotly

**Experience with Core Django REST Libraries /Packages:**

Django-rest-framework |Django-cors-headers | Django-debug-toolbar | Django-extensions |Sentry-sdk| Django-allauth |Django-filter | Django-import-export |



**Sanket More**

**Python ML Engineer – HCL -https://www.hcltech.com/**

**CONTACT**

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🏠**Address**

Jay Bharti Apartment, Room no. 23/3rd floor, Near Happy Home English School, Vitawa, Thane-400605

**EDUCATION**

* Bachelor of Commerce (B.Com)
* University :- D.G. Ruparel College of Commerce,Mumbai University

**MORE ABOUT ME**

* Father name : Hindurao
* Mother name :- Savita
* Current address :- Jay Bharti Apartment, Room no. 23/3rd floor, Near Happy Home English School, Vitawa, Thane-400605
* Date of birth :- 09/11/1998
* Martial status :- Unmarried
* Language :- Hindi, English.
* Passport availability : Yes.

**Experience with Machine Learning Algorithm**

**Linear Regression | Logistic Regression | KNN |K-Means |Naïve Bayes |Mean, Median, Mode |Decision Tree |Random Forest**

**Support Vector Machine |Principal Component Analysis |NLP |XG Boost**

**Process worked with :** DevOps + Agile + V- Model

**Software Programming Language Experience:**

* Python |Java | C++ |Java Script |CSS |HTML |Boot Strap |J Query

**Business Implementation Programming Experience:**

Machine learning – Python | ETL – Python | Business Intelligence

**Strong Experience Areas**

Python | SQL | Unix Data Analytics –ETL |Machine Learning Algorithm | Django Web service-REST

**Professional Work Experience**

**Data Science / ETL/ ML & Django Rest Task as a Full-Stack Developer:**

**Web Development Django REST Task:**

* Good experience in developing Web Applications implementing **Model-View-Control Architecture using Django REST Application Framework.**
* Strong expertise in development of **Web-Based Applications using Python, HTML, XML, KML, CSS, DHTML, JavaScript, JSON and JQuery.**
* Experience in working with **Python ORM Libraries including Django ORM, SQLAlchemy**.
* Good knowledge of **Web Services with protocols SOAP, REST.**
* Experience in working with **continuous deployment using Heroku and Jenkins**.
* Good experience in working with **Amazon Web Services like EC2, Virtual private clouds (VPCs), Storage models (EBS, S3 ,instance storage), Elastic Load Balancers (ELBs).**
* Experience in using various version control systems like **Git, and GitHub.** Having good knowledge in using **NoSQL databases like MongoDB .Proficient in writing SQL Queries.**
* Experience in working with **Python ORM Libraries including Django ORM, SQLAlchemy.**
* Excellent Interpersonal and communication skills, efficient time management and organization skills, ability to handle multiple tasks and work well in a team environment.

**Data Science /Machine learning /ETL/BI Task**

* Highly efficient Data Scientist/Data Analyst with **3+** years of experience in Data Analysis, Machine Learning, Data mining with large data sets of **Structured and Unstructured data, Data Acquisition, Data Validation, Predictive modeling, Data Visualization, Web Scraping.**
* **3+ years** of Experience in **design, development, testing and implementation of various stand - alone and client-server architecture** based enterprise application software in Python on different domains
* Experience in statistical programming languages with Python including Big Data technologies like Hadoop, Hive and Pyspark.
* Proficient in managing entire data science project life cycle and actively involved in all the phases of project life cycle including Data **Acquisition, Data Cleaning, Data Engineering, Features Scaling, Features Engineering, Statistical Modeling (Decision Trees, Regression Models, Clustering), Dimensionality Reduction using Principal Component Analysis (PCA) and Factor Analysis, Testing and Validation using ROC plot, K - fold Cross-Validation and Data Visualization.**
* Experience and deep understanding of **Statistical modeling, Multivariate Analysis, Model Testing, Problem Analysis, Model Comparison, and Validation.**
* Expertise in transforming business requirements into Analytical Models, Designing Algorithms, Building Models, Developing Data Mining and Reporting solutions that scale across a massive volume of structured and unstructured data.
* Skilled in performing Data Parsing, Data Manipulation and Data Preparation with methods including describe data contents, compute descriptive Statistics of data, Regex, split and combine, remap, merge, subset, reindex, melt and reshape.
* Experience in using various Libraries and Packages in python-like **NLP, Pandas, NumPy, Seaborn, SciPy, Matplotlib, Sci-kit-learn,Beautiful Soup, Json, CSV,** Highly skilled in using visualization tools like **Tableau for creating dashboards.**
* Extensive experience in Text Analytics, generating data visualizations using Python and creating dashboards using tools like Tableau.
* Hands on experience with big data tools like Hadoop, Spark, Hive, Pig, PySpark, Spark SQL.Hands on experience in implementing LDA, Naive Bayes and skilled in **Random Forests, Decision Trees, Linear and Logistic Regression, SVM, Clustering, neural networks, Principle Component Analysis.**
* Good Knowledge in Proof of Concepts (PoC's), gap analysis and gathered necessary data for analysis from different sources, prepared data for data exploration using data munging.
* Good industry knowledge, analytical & problem-solving skills and ability to work well within a team as well as an individual.
* Experience in designing stunning visualizations using Tableau software and publishing and presenting dashboards, Storyline on web and desktop platforms.
* Experience and Technical proficiency in **Designing, Data Modeling Online Applications, Solution Lead for Architecting Data Warehouse/Business Intelligence Applications.**
* Experience with Data Analytics, Data Reporting, Ad-hoc Reporting, Graphs, Scales, PivotTables and OLAP reporting.
* Highly skilled in using Hadoop (pig and Hive) for basic analysis and extraction of data in the infrastructure to provide data summarization.
* Worked and extracted data from various database sources like Oracle, SQL Server, DB2, regularly accessing JIRA tool and other internal issue trackers for the Project development.
* Highly creative, innovative, committed, intellectually curious, business savvy with good communication and interpersonal skills.

**Key Skills**

* Frameworks: Django, CSS , Bootstrap.
* Web Technologies: HTML, CSS, Java Script, JQuery, J SON, XML.
* Programming Languages: Python, HTML, CSS, SQL.
* Version Control: Git, GitHub.
* Cloud Computing: AWS EC2, S3.
* Analytic Tools: PySpark.
* Application servers: Apache Tomcat,Nginix, JBoss,WebLogic,WebSphere.
* Databases: Oracle 10g, My SQL, MongoDB.
* IDEs/ Development Tools: PyCharm , Anaconda – Jupyter Nb , Atom, Spyder , Microsoft Visual Studio.
* Operating Systems: Windows, Red hat Linux .
* Protocols: TCP/IP, HTTP/HTTPS, SOAP.
* Deployment Tools: Heroku, Jenkins.
* Issue Trackers: HPALM 12.5.
* Web Service : REST –JSON, DRF (Django Rest Framework)

**Awards Received**

* Received “*Star Performer Award”* from **HCL** for good performance.
* Received appreciation for E2E Delivery from client -**Worldpay, United Kingdom**

**WORKING ZONE ORGANIZATION**

Worked as a Python ML Engineer with HCL Technologies - https://www.hcltech.com/ Pune since February 2020 -Present

**Projects**

**Project Sequence 1**

Project Name : Smart Routing Solution -Payment System

Vertical : Payments system

Client : Worldpay, United Kingdom

Technology & Tool: Python, PySpark, Spark SQL, Plotly, Dash, Postman, Microsoft Azure, Docker, ETL, Machine Learning, Statistical Analysis

Roles: : Python Data Scientist

**Detail Project Overview and Workflow:**

Improving the efficiency of a payment system is important since it has a substantial impact on revenues for businesses. A gateway is an integral component of a payment system through which every transaction is routed. In an online payment system, payment processors integrate with these gateways by means of various configurations such as pricing, methods, risk checks, etc. These configurations are called terminals. Each gateway can have multiple terminals associated with it. Routing a payment transaction through the best terminal is crucial to increase the probability of a payment transaction being successful. Machine learning (ML) and artificial intelligence (AI) techniques can be used to accurately predict the best terminals based on their previous performance and various payment-related attributes. This solution devised a pipeline consisting of static and dynamic modules. The static module does the initial filtering of the terminals using static rules and a logistic regression model that predicts gateway downtimes. Subsequently, the dynamic module computes a lot of novel features based on success rate, payment attributes, time lag,etc. to model the terminal behaviour accurately. These features are updated using an adaptive time decay rate algorithm in real-time using a feedback loop and passed to a random forest classifier to predict the success probabilities for every terminal.This pipeline is currently in production at Worldpay routing millions of transactions through it in real-time and has given a 4-6% improvement in success rate across all payment methods (credit card, debit card, UPI, net banking). This has made our payment system more resilient to performance drops, which has improved the user experience, instilled more trust in the merchants, and boosted the revenue of the business. Raw Data from corporate databases is extracted. The data could be spread across multiple systems heterogeneous systems. The data is cleaned and transformed into the data warehouse. The table can be linked, and data cubes are formed. Using BI system the user can ask quires, request ad-hoc reports or conduct any other analysis. Business intelligence is a system of various solutions used to garner insights from different types of data. Driving business decision making is the primary use of business intelligence and is accomplished by utilizing different techniques to understand historical, live, and predictive data. In this bi defined page, we’ll delve deeper into the purpose of BI and specifically, it’s relation to an important element of BI, business intelligence reporting. Businesses are able to source data from external and internal systems, assemble the data for analysis, generate and execute queries against the collected data to create reports and dashboards for decision makers. Visualizations within these reports and dashboards are powerful statistical tools that empower decision makers to action data quicker. Reporting is an early step in the process of data processing. It presents data in an interactive fashion to turn it into actionable information. There can be many levels of interactivity within a report such as the ability to drill down, sort, and filter, as well as additional capabilities such as self-service editing which allows you to further explore your data for more insights. Business intelligence reporting is most beneficial when it is designed to help track and measure your strategic business goals. Other use cases for reporting tools include tracking key performance indicators, maintaining regulatory compliance, or even measuring goals between different departments or applications. Report developers and report writers use tools such as This solution Designer, our report design tool, to distinguish elements such as data sources, display formats, graphics, filters, and other options that are essential for report presentation. Enterprise reporting solutions, such as This solution, also allow end-users to create reports and dashboards directly from web application interfaces using ad-hoc data resources specified by developers. Users are therefore given the ability to generate speedy data-driven decisions through building report components, collecting various data, and designing ad hoc reports. Reports can be published to a reporting engine, such as This solution Server, which extracts data and generates reports.

**Task Handled:**

* Implemented Data Exploration to analyze patterns and to select features using Python and SciPy.
* Built Factor Analysis and Cluster Analysis models using Python SciPy to classify customers into different target groups.
* Implemented Data Exploration to analyze patterns and to select features using Python and SciPy.
* Built Factor Analysis and Cluster Analysis models using Python and SciPy to classify customers into different target groups.
* Created HBase Tables to store various data formats of data coming from different portfolios.
* Provided summary statistics of key performance metrics and other measures deemed significant business units.
* Coordinated and managed Data Analytics activities with stakeholders
* Performed Multivariate Analysis, Predictive Modelling, Cluster, Market Basket Analysis using sophisticated statistical techniques.
* Interpreted & translated analytic output into insights.
* Determined the source of the data, coordinate extraction and acquisition.
* Worked with brands and business units to ensure that all consumer and behavioral data is stored in a Centralized Enterprise Repository using Amazon Web Services, Redshift and C3.
* Assess data quality, identify gaps in the data and eliminate irrelevant data.

**Project Sequence 2**

Project Name : **Industrial 4G LTE Routers**

Client : Elisa Telecom , Finland

Vertical : Telecom OSS Provisioning and Activation –Inventory Management

Technology & Tool : Python, Django REST , Oracle ,GIT , Rest – Web Service ,Pandas, ETL, Statistical Analysis.

Role : Python Developer

**Detail Project Overview and Workflow:**

3X36 Industrial 4G Router use High speed 4G module, strong wireless communication with major network, including TD-LTE,FDD-LTE,TD-SCDMA,WCDMA,EVDO,CDMA1X,GPRS/EDGE. Using high-performance industrial-grade wireless modules, industrial grade high stability high precision components, -35 ~ +75 º C extremely wide temperature design, easily adapt to the high-temperature cold working environment for unmanned systems to provide reliable group network with stable communication. These compact, high-density, advanced Gigabit and multi Gigabit Ethernet (GigE) platforms are designed for the most demanding of converged networks. Offering high-speed flexible uplinks, 200G stacking, industry leading 95W PoE, and high density 10G multi-gigabit ports ready for Wi-Fi 6, these platforms are the right choice for the next generation of enterprise switching networks. Offering comprehensive security features, they are well-equipped to secure the network edge. These high performance, versatile LAN switches can be positioned:

At the edge of mid- to large-sized converged enterprise networks.

At the aggregation layer,In a small enterprise network core,In the data center for GigE server connectivity and SDN applications.

The Alcatel-Lucent OmniSwitch 6560 Stackable Multi-Gigabit Ethernet LAN value switch family is an industry leading campus access solution for enterprise networks. With multi-gigabit ports for high-speed IEEE 802.11 ac devices, 10GigE uplinks and 20 GigE stacking, the OmniSwitch 6560 is the right solution for your next generation network. Offering a design optimized for flexibility and scalability as well as low power consumption, the OmniSwitch 6560 is an outstanding edge solution. It uses the field-proven Alcatel-Lucent Operating System (AOS) to deliver highly available, secure, self-protective, easily managed and eco-friendly networks.

**Task Handled:**

* Understand the FRS document and analyze the requirement, specifications and also in client interaction during requirements specifications.
* Designed the front end of the application using Python, HTML, CSS, AJAX, JSON and JQuery. Worked on backend of the application, mainly using Active Records.
* Involved in analysis and design of the application features, designed and developed communication between client and server using Secured Web services.
* Created UI using JavaScript and HTML5/CSS, Developed and tested many features for dashboard using Python, Java, Bootstrap, CSS, JavaScript and JQuery.
* Wrote backend programming in Python, used JavaScript and XML to update a portion of a webpage.
* Developed consumer based features and applications using Python and Django in Test Driven Development and Pair Based Programming.
* Performed Unit testing, Integration Testing, GUI and Web Application testing using Rspec.
* Implemented user interface guidelines and standards throughout the development and maintenance of the website using the HTML, CSS, JavaScript and JQuery.
* Worked on Jenkins continuous integration tool for deployment of project, worked on changes to open stack and AWS to accommodate large-scale data center deployment.
* Used advanced packages like Mock, patch and beautiful soup (b4) to perform Unit Testing. Worked on translation of web pages to different languages as per client requirements.
* Updated the client admin tool to have the new features like support for internalization, support for customer service etc.
* Implemented responsive vector maps and charts on web pages using the data from MongoDB.
* Collaborated with Product Management and User Experience experts regarding product definition, schedule, scope and project-related decisions. Also managed, collaborated and coordinated the work of an offshore development team.
* Worked on rebranding the existing web pages to clients according to the type of deployment.
* Worked on updating the existing clip board to have the new features as per the client requirements. Used many Regular Expressions in order to match the pattern with the existing one.
* Skilled in using collections in Python for manipulating and looping through different user defined objects. Worked with team of developers on Python applications for RISK management.
* Taken part in entire lifecycle of the projects including design, development, and deployment, testing and implementation and support. Improved code reuse and performance by making effective use of various design patterns
* Documented the design solutions and created stories for client requirements.

**Project Sequence 3**

**Project Name** : Dynamic Optimization

**Vertical**  : Telecom Billing -BSS

**Client**  : Elisa Telecom , Finland

**Technology & Tool**  : Python, PySpark, Spark SQL, Plotly, Dash, Post Man ,Microsoft Azure, Docker, ETL, ML ,Statistical Analysis

**Roles**  : Python Developer /Data Scientist

**Detail Project Overview and Workflow:**

ML models may ingest data from simple user inputs, distributed databases, or streaming data pipelines. Some models have minimal storage requirements, but others depend on large, ML optimized data storage. The dynamic nature of services and networks will require two key core areas of AI/ML technology: anomaly detection and forecasting demand/behavior. As network complexities grow, anomaly detection will be needed to manage everything from devices to legacy and core networks to IT operations. Forecasting will also be critical, to respond to the growing need to automate, provision and scale network resources and support new usage patterns. Big data along with Machine Learning and Artificial Intelligence would be the key differentiators for any telecom operator to set themselves ahead of the competitors. Data Management and visualization of the orchestrated data to build predictive engines, would bring down the OpEx as well as MTTR. Applying artificial intelligence as an add-on would deter the dependency on L1/L2 support engineers. This solution solve below factors

Data Ingestion / Data Orchestration ,Data Mining, Data Visualization, Dashboards, Business Insights & Intelligence, Descriptive Analytics, ML Model Building, Predictive Analytics, Prescriptive Analytics, Statistical Modeling, Deep Learning, Reinforcement Learning, ML Model Deployment, Micro-services, DevOps, ML Performance Tuning . This solution is a powerful rating and billing engine that performs the complex rating, bundling, contract management, and discounting functions that CLECs, wholesale carriers, resellers, cable companies, unified communications and IP provider’s demand. The implementation of this solution will Gain Billing Efficiencies, Guard Your Revenue. Manage complex corporate relationships with n-tier hierarchies that include functionality for establishing invoice responsibility, discounts, contract management and more. Manage complex corporate relationships with n-tier hierarchies that include functionality for establishing invoice responsibility, discounts, contract management and more. Provides convergent support – and a single invoice – for providers transitioning from traditional communications services into multiple lines of service including IP, cable, mobile, SaaS and nearly any other service delivery model.

**Task Handled:**

* Implemented Data Exploration to analyze patterns and to select features using Python and SciPy.
* Built Factor Analysis and Cluster Analysis Models using Python and SciPy to classify customers into different Target Groups.
* Designed an A/B Experiment for testing the business performance of the new recommendation system.
* Supported MapReduce Programs running on the cluster.
* Evaluated business requirements and prepared detailed specifications that follow project guidelines required to develop written programs.
* Participated in Data Acquisition with Data Engineer team to extract historical and real-time data by using Hadoop-MapReduce and HDFS.
* Communicated and presented default customers profiles along with reports using Python and Tableau, analytical results and strategic implications , to senior management for strategic decision making Developed scripts in Python to automate the customer query addressable system using python which decreased the time for solving the query of the customer by 45% .Collaborated with other functional teams across the Risk and Non-Risk Groups to use standard methodologies and ensure a positive customer experience throughout the customer journey.
* Performed Data Enrichment jobs to deal missing value, to normalize data, and to select features.
* Developed multiple MapReduce jobs in Java for Data Cleaning and Pre-processing, analyzed the partitioned and bucketed data and compute various metrics for reporting.
* Extracted data from Twitter using Java and Twitter API. Parsed JSON formatted twitter data and uploaded to database.
* Developed Hive queries for analysis, and exported the result set from Hive to MySQL using Sqoop after processing the data.
* Created HBase tables to store various data formats of data coming from different portfolios. Worked on improving performance of existing Pig and Hive Queries.
* Created reports and dashboards, by using D3.js and Tableau 9.x, to explain and communicate data insights, significant features, models scores and performance of new recommendation system to both technical and business teams.Utilize SQL, Excel and several Marketing/Web Analytics tools (Google Analytics, Bing Ads, AdWords, AdSense, Criteo, Smartly, SurveyMonkey, and Mailchimp) in order to complete business & marketing analysis and assessment.
* Used Git 2.x for version control with Data Engineer team and Data Scientists colleague. Used Agile methodology and SCRUM process for project developing.
* KT with the client to understand their various Data Management Systems and understanding the data, creating meta-data and data dictionary for the future data use/ data refresh of the same client.
* Structuring the Data Marts to store and organize the customer's data.
* Running SQL scripts, creating indexes, stored procedures for data analysis,Data Lineage methodology for Data Mapping and maintaining data quality.
* Prepared Scripts in Python and Shell for Automation of administration tasks.
* Maintained PL/SQL objects like packages, triggers, procedures etc. Mapping flow of trade cycle data from source to target and documenting the same.
* Performing QA on the data extracted, transformed and exported to excel.
* Participated in all phases of Data Mining; Data Collection, Data Cleaning, Developing Models, Validation, Visualization and performed Gap Analysis.
* Extracted data from HDFS and prepared data for Exploratory Analysis using data Munging.
* Built models using Statistical techniques like Bayesian HMM and Machine Learning Classification Models like XG Boost, SVM, Random Forest. etc.
* A highly immersive Data Science program involving Data Manipulation & Visualization, Web Scraping, Machine Learning, Python programming, SQL, GIT, Unix Commands, NoSQL, MongoDB, Hadoop.
* Used Pandas, Numpy, Seaborn, Scipy, Matplotlib, Scikit-learn, NLTK in Python for developing various Machine Learning Algorithms.
* Worked on different data formats such as JSON, XML and performed machine learning algorithms in Python.

**Declaration:-**

I hereby declare that the above-mentioned information is correct to the best of my knowledge.

Date. -----------

Place. -----------

Regards

Sanket More