



Organization URL: <https://www.ibm.com>

Strong Programming Experience Area:

Python Programming | Complex Data set Atomization Using Machine Learning Algorithm | Django REST framework | Data science | SQL | ETL |

Tools and Technologies:

PySpark | Apache Airflow – Py ETL | Tableau- Business Intelligence | Django Rest Framework

Domain / System /Component Type worked with: **Payment and E - Commerce and Telecom OSS**

Cloud Environment worked with: **AWS EC2 Server**

Process Involved In: DevOps –CI CD Pipeline | Waterfall | Agile

Professional Objective

A challenging carrier as **Data scientist** where **Python Machine Learning** skills can be effectively used and upgraded.

Data Scientist with strong math background and 2 years of experience using **predictive modeling, data processing, and data mining algorithms** to solve challenging business problems. Involved in Python open-source community and passionate about deep reinforcement learning. Looking for a challenging career in the field of IT-Software especially **Data scientist +Python Programming** where my Strong a SQL and Unix knowledge and experience in Programming Concepts and Methodologies in Software Development are shared and with Development encouraged.

Programming Experience Headlines

Important Core Libraries worked:

Matplotlib | NumPy | Pandas | Scikit Learn | TensorFlow | Seaborn | Keras | SciPy

Important Core Package worked with Django Rest Framework:

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



Python ETL – Apache Airflow | BI Tool used - Tableau | Frame work involvement: Django rest
| Web scrapping Libraries : BeautifulSoup 4 | Unstructured DB – Mongo DB |

Process worked with – **DevOps + Agile + Waterfall model**

Machine learning Algorithm Work Exp:

Linear Regression, Logistic Regression, k-means, KNN, Naïve Bayes, Mean ,median ,mode

Machine learning Algorithm Strong Understanding:

**Random forest | NLP | Principal Component Analysis | Decision Tree | Support Vector Machine
| XG Boost |**

Software programming Language Proficiency: Python | Java | C++ | Java script | CSS | html | Boot
Strap | J query

Technical Qualification area: Python, SQL , Unix , Data Analytics –ETL , Algorithm (Machine
Learning) ,Artificial Intelligence Python ** Advanced Python** Django** Web service-
REST**Full stack** PyCharm ** ORM- Object relational Mapping **SQLAlchemy** Pytest **
Logging ** Multithreading ** SQL** etl/dwh **Unix ** Git ** JENKINS** Postman** Agile
and Waterfall

Technical Summary

- ❖ 2+ Years of experience in software **design, development, implementation, and Unit testing** using Python, ETL, AI, ML and Django Rest Technologies.
- ❖ Leveraged 200M+ tweets to develop sentiment analysis model that helped improve sales and marketing strategies
- ❖ Proficient in Machine Learning algorithm and Predictive Modeling including **Regression Models, Decision Tree, Random Forests, Sentiment Analysis, Naïve Bayes Classifier, SVM, Ensemble Models.**
- ❖ Involved in Complex dataset atomization
- ❖ Used Python and Apache Airflow to scrape, **Clean, and analyze large datasets**
- ❖ Helped build tools for detecting botnets with machine learning and data mining
- ❖ Expertise in full life cycle of Python Application Developments, Including **Analysis, Requirements Gathering, Design, Development, Implementation, Maintenance and Enhancements.**
- ❖ 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, testing and validation and data visualization.**
- ❖ Coordinate with all business analysts and application architects to maintain knowledge on all functional requirements and ensure compliance to all architecture standards.
- ❖ Transformed raw data into MySQL with custom-made ETL application to prepare unruly data for machine learning
- ❖ Role includes Python Development, ERP development, Python Testing, Customer Engagement, Cross-functional team coordination, Product enhancement and development

etc.

- ❖ Work closely with System analysts, engineers, programmers, business stakeholders to design system and to obtain information on project limitations and capabilities performance requirements and interfaces.
- ❖ Experience in implementing complete Software Development Life Cycle - **SDLC** for various applications including Analysis, Design, Development, Implementation Testing, Maintenance and Support
- ❖ Comprehensive knowledge and experience in ETL /Data warehousing methodologies such as normalization/de-normalization, data extraction, data cleansing and data manipulation.
- ❖ Hands on experience in developing client/server, multi-tier and web-based applications.
- ❖ Experience in implementing data analysis with various analytic tools, such as Anaconda Jupiter Notebook
- ❖ Good working experience with **Core Python, Django, Web Services with DRF(Django rest framework), MVC, JSON, Pytest, logging, SQL Alchemy(ORM), HTML, Design Patterns**
- ❖ Experienced with **machine learning algorithm such as logistic regression, linear regression, k-means, KNN, Naïve Bayes**
- ❖ Knowledge with big data tools like Hadoop, Spark, Hive, Pig, PySpark, Spark SQL, PySpark 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.
- ❖ Familiar with **JSON based REST Web services and Amazon Web Services(AWS).**
- ❖ Expertise in **OOP's Object Oriented Programming** like Python
- ❖ Experience in writing **Sub Queries, Stored Procedures, Triggers, Cursors, and Functions** on Oracle database.
- ❖ Good experience in open source frameworks like **Django and Flask.**
- ❖ Strong knowledge Data science /Machine learning libraries : NumPy ,Pandas
- ❖ Used **GITHUB** to deployment of code, Good working experience in application development using IDE's like PyCharm
- ❖ Good experience with deployment and release of the application with test cases using **Pytest** and application logging using the **Logging.**
- ❖ Experience working in **Agile Scrum** and Waterfall Methodologies, Team player with excellent communication and problem-solving skills.
- ❖ Ability to quickly adapt to new environments and learn new technologies.
- ❖ Experience of developing test cases using Pytest and Django test to perform unit testing, applied functional and regression testing after implementation.
- ❖ Good team player with excellent work history as regards with work ethics, dependability and willingness to go an extra mile.

Technical Skills

2+ years of experience in Analysis, Design, and Testing of 3-tier and n-tier component based applications using Core Python, , Django Rest Framework, Django, Data Science , JSON, HTML. Machine Learning: Logistics Regression, Linear Regression, K-means Analytic/Predictive modeling Tools: Jupiter, Anaconda

Programming Language - Python, SQL, C++,
Java

Tools: SQL Developer

Web Designing : - HTML, CSS, JavaScript

Web server : - WSGI, Apache.
 Database Skills : - MySQL, Oracle.
 Versioning Tools : - GIT
 Build Tools : - Pybuilder
 RDBMS: Oracle 10 g
 Unstructured database: Mongo DB
 Continuous Integration Tool :- Jenkins
 Data Modeling Tools: Oracle Designer,
 Framework Software :- Django Rest
 Defect Reporting Tool :- HPALM
 Web Service : - REST –JSON, DRF (Django Rest Framework)
 Development Tools : - PyCharm, Notepad ++
 OS and Networking : - Windows XP, Windows 10, Ubuntu/Linux 18.2

Awards and Achievement:

- ❖ Awarded with Rising Star from IBM for brilliant performance.
- ❖ Received Award from client- Finix Payments, USA for extra ordinary performance for successfully delivery of BIP Project

EDUCATIONAL QUALIFICATION:

- ❖ Bachelor of computer application (BCA) -Savitribai Phule Pune University, Maharashtra

Project-Sequence 1

-

Project Title: **NDCS – eunED
 Integration [Fiber Optics Switch
 Synchronization]**

Client: EuNetworks, London

Technology: Python, ETL ,Django Rest,
 Machine Learning
 Role – Python Data scientist
 Vertical: Telecom OSS –Provisioning & Activation

Project Description:

NDCS associated with different types of systems like EUNED. The main aim of the OSS Testing is to carry out integration between NDCS and Its Associated Systems in Optical Networks. It involves testing functionality for the new equipment's and request for the change for the old equipment. NDCS stands for Network Design and Configure System It's complete solution for managing transmission network including Planning (new network), Assignment (of new services), and Configuration (of network elements).

NDCS allows configure network like in Mxeth Vlan, IB managed Vlan, MEAS Vlan, ACC Vlan, WDM network, Eth Network, pstm technology, FTTC Vlan etc. NDCS has different Sub Systems like Planning, Schemes, and Order Handling.

In Planning Sub System, it deals with logical and physical planning of the circuits and networks which are required for placing and order. A Scheme can be defined as a sequential implementation of planning. For Order handling a customer request for a connection between two Localities. EUNED (euNetworks Exchange Data) application is used for recording the details of transmission equipment installed in Netcomm exchanges and their interconnections.

NDCS=EUNED Automatic interfaces between these applications are to be provided to keep the data between the 2 systems synchronized and avoid double keying of data by the users. It is also intended to enhance the location data quality to allow it to be relied on by the Maintain and Repair teams. Optical Network is the network transformation project of the Telecommunication company EuNetworks.

Roles and Responsibilities:

- Involved in requirement analysis, design, estimation and testing of the assigned tasks in open stack With Ba
- Interpreting data, analyzing results using statistical techniques
- Developing and implementing data analyses, data collection systems and other strategies that optimize statistical efficiency and quality
- Design python script write to ensure functionalities meets customer requirements
- Acquiring data from primary or secondary data sources and maintaining databases
- Work with stakeholders to determine how to use business data for valuable business solutions
- Search for ways to get new data sources and assess their accuracy
- Browse and analyze enterprise databases to simplify and improve product development, marketing techniques, and business processes
- Create custom data models and algorithms
- Use predictive models to improve customer experience, ad targeting, revenue generation, and more
- Develop the organization's test model quality and A/B testing framework
- Coordinate with various technical/functional teams to implement models and monitor results
- Develop processes, techniques, and tools to analyze and monitor model performance while ensuring data accuracy

Project-Sequence 2

Project Name: Buyer Initiated Payments

Client: Finix Payments, USA

System/Component: Payment System

Technology: Python, Django, Oracle, GIT ,SVN ,Rest – Web service ,Pandas ,etl, Statistical

Analysis Roles : Python Data analyst

Project Detail Description:

BIP are software and servers that transmit Transaction information to Acquiring Banks and responses from Issuing Banks (such as whether a transaction is approved or declined). Essentially, this solution facilitate communication within banks. Security is an integral component of all payment gateways, as sensitive data such as Credit Card Numbers need to be protected from any fraudulent parties. The card associations have created a set of rules and security standards which must be followed by anyone with access to card information including gateways. This set of rules and security standards is called the Payment Card Industry Data Security Standard (PCI-DSS or PCI). Submitting an order is usually completed using HTTPS protocol, which securely communicates personal information through the parties involved in the Transaction. Many Payment Providers enable Merchants with added options when a cardholder purchases a service or product. Aside from providing the ability for real-time transactions, these providers can help to translate currencies between two parties in different countries, as well as bridge language and payment methods. Payment gateways usually charge those who use them a per transaction fee.

Roles and Responsibilities:

- Understand and Analyze Customer requirements and Business logic
- Built multifunction readmission reports using python pandas and Django framework
- Involved in Preparing Low level Design of Application
- To take part in software and architectural development activities
- Involved in designing and preparation of call flows with usability services.
- Perform data exploratory analysis using Matplotlib, Collected historical data and third party data from different data source
- Improved Operation activities. Used Linear & Logistic Regression, perform data cleansing, data imputation and data preparation using Scikit Learn and Numpy.
- Conduct software analysis, programming, Unit and White box testing and debugging
- Identifying production and non-production application issues, Ensuring designs comply with specifications, Transforming requirements into stipulations
- Support continuous improvement, investigating alternatives and technologies, Presenting for architectural review
- Managing Python application development, Develop, test, implement and maintain application software
- Validated already developed python reports. Fixed the identified bugs and re-deployed the same.
- Recommend changes to improve established python application processes, Develop technical designs for application development
- Develop application code for python programs, Involved in client interaction to sort out the Requirement issue
- Used Hpalm to Handle Defect management Process, Implementing a Working Timeline and Deadline Adherence
- Create the Reporting and share with top management

Project sequence 3

Project Title :Conversion & Retention

Analysis

Client: : Costco, Canada

System/Component: Payment, E- commerce
,CRM

Technology: Python , ETL ,Django Rest,
Machine Learning

Role – Python Data scientist

Project Description:

Costco Products analytics is the process of gathering data from all areas that have an impact on user online store and using this information to understand the trends and the shift in consumers' behavior to make data-driven decisions that will drive more online sales. Price and stock information about business competitors and where Business are positioned against them price-wise is a very important data point user need to consider if user want to compete in the e-commerce space. Product analysis allows user to understand which products and product lists are performing, why they're performing or underperforming, as well as what you can do to optimize sales. Product metrics such as Number of products, Number of active products, Gross Margin, Number of Reviews, Product detail views, Product add to carts, Product removes from cart, Product conversion rate are vital element for

business.

Important Modules :

- Sales Analytics, Data Repository collection, Customer Behavior Analytics ,Marketing Performance analysis
- Conversion Optimization, Product analytics

Responsibilities:

- Understand and Analyze Customer requirements and Business logic
- Built multifunction readmission reports using python pandas and Django framework
- Involved in Preparing Low level Design of Application, To take part in software and architectural development activities
- Involved in designing and preparation of call flows with usability services.
- Perform data exploratory analysis using Matplotlib
- Collected historical data and third-party data from different data source
- Improved Operation activities. Used Linear & Logistic Regression
- Perform data cleansing, data imputation and data preparation using Scikit Learn and Numpy.
- Conduct software analysis, programming, Unit and White box testing and debugging
- Identifying production and non-production application issues
- Ensuring designs comply with specifications, Transforming requirements into stipulations
- Support continuous improvement, investigating alternatives and technologies, Presenting for architectural review
- Managing Python application development, Develop, test, implement and maintain application software
- Validated already developed python reports. Fixed the identified bugs and re-deployed the same.
- Recommend changes to improve established python application processes
- Develop technical designs for application development
- Develop application code for python programs, involved in client interaction to sort out the Requirement issue
- Used hpalm to Handle Defect management Process, Implementing a Working Timeline and Deadline Adherence
- Create the Reporting and share with top management