



## ABOUT ME

- Father's Name: Anandrao Bhikaji Lokhande
- Mother's Name: Suman Anandrao Lokhande
- Current Address: AP- Pandare, Abajinagar Tal- Baramati Dist- Pune 413110
- Date of Birth: 13/09/1996
- Marital Status: Single
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## INTERESTS

Online Games	Books
Problem Solving	Machines

Python Full Stack Developer- Fujitsu Global - <https://www.fujitsu.com/> - Pune

## CAREER OBJECTIVE

To find a Position in a cutting edge Organization that will utilize either or all of my **Python /Data science /Machine Learning /Artificial Intelligence /Django REST API Web Development**

Experience and skills. To employ myself in a progressive organization that provides scope to update my practical knowledge and skills in accordance with the latest trends and be part of the team that dynamically works towards growth of the organization. To achieve a challenging position in Software Testing in a result-oriented company, where acquired skills and education will be utilized towards continuous growth and advancement.

## EDUCATION

- BE mechanical
- College: MIT College of Engineering Pune
- University: Savitribai Phule Pune University.

## EXPERIENCE

**Strong zone: Python/Django –Backend Development / Machine Learning / Data Science, Algorithms, Data structure**

Current work experience with client Netcomm Wireless, Australia as a **Python Full Stack Developer** for **HR4860 Secure 5G SD-WAN Gateway** on Fiber Networks

### CORE TECHNOLOGY SPECIALIZATION:

**Python | Django REST API | Data Science | Machine Learning | PySpark | Data warehouse /ETL | Business Intelligence | SQL | Unix | MongoDB |**

### VERTICAL /DOMAIN/SYSTEM SPECIALIZATION

Telecom OSS - Provisioning & Activation | Payment Gateway | Logistics

### Tools and Associated Technologies Used:

- ❖ 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
- ❖ 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
- ❖ Core Data science Libraries Used : Matplotlib | Numpy | Pandas | Scikit Learn | T | Seaborn | Scipy

### Familiar with Software Programming Language

Python | Java Script | CSS | HTML | Boot Strap | J Query

## PROFESSIONAL WORK SUMMARY

- ❖ Highly experienced Data Scientist with 3 + years' experience in **Data Extraction, Data Modelling, Data Wrangling, Statistical Modeling, Data Mining, Machine Learning and Data Visualization.**
- ❖ Expertise in transforming business resources and requirements into manageable **data formats and analytical models, designing** algorithms, building models, developing data mining and reporting solutions that scale across a massive volume of structured and unstructured data.
- ❖ 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.
- ❖ Proficient in Machine Learning algorithm and **Predictive Modeling including Regression Models, Decision Tree, Random Forests, Sentiment Analysis, Naïve Bayes Classifier, SVM, Ensemble Models.**
- ❖ Collaborated with data engineers and operation team to implement ETL process, wrote and optimized SQL queries to perform data extraction to fit the analytical requirements.
- ❖ Explored and analyzed the customer specific features by using Spark SQL.
- ❖ Performed univariate and multivariate analysis on the data to identify any underlying pattern in the data and associations between the variables.
- ❖ Performed data imputation using Scikit-learn package in Python.
- ❖ Worked on data cleaning and ensured data quality, consistency, integrity using Pandas, Numpy.
- ❖ Used SSIS to create ETL packages to Validate, **Extract, Transform and Load data into Data Warehouse and Data Mart.**
- ❖ Developed and implemented predictive models using machine learning algorithms such as linear regression, classification, multivariate regression, Naive Bayes, Random Forests, K-means clustering, KNN, PCA and regularization for data analysis.
- ❖ Wrote complex Spark SQL queries for data analysis to meet business requirement.
- ❖ Analyze and Prepare data, identify the patterns on dataset by applying historical models. Collaborating with Senior Data Scientists for understanding of data
- ❖ Perform **data manipulation, data preparation, normalization, and predictive modelling. Improve efficiency and accuracy** by evaluating model in Python
- ❖ Familiar with various **ML algorithm such as 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**
- ❖ Used various types of Core Data Science/ML Libraries /Packages such as PySpark , Pandas , Numpy , Seaborn , Matplotlib ,Scikit Learn , Keras ,Tensorflow ,Scipy , Statsmodels , Plotly
- ❖ This project was focused on customer segmentation based on machine learning and statistical modelling effort including building predictive models and generate data products to support customer segmentation
- ❖ Designed front end and backend of the application utilizing Python on Django Web Framework.
- ❖ Analyzed the requirements and designed the flow of task using flow charts and dependently designed flow between pages of the UI.
- ❖ Responsible for creating of website functionality with JavaScript, HTML, CSS .
- ❖ For the development of the user interface of the website used HTML, CSS, Java Script and AJAX
- ❖ Used various types of Django libraries such as **Django-rest-framework ,Django-cors-headers , Django-debug-toolbar , Django-extensions ,Sentry-sdk , Django-allauth , Django-filter , Django-import-export**
- ❖ Experience in developing views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
- ❖ To update a portion of a webpage used JavaScript and JSON.
- ❖ Expertise in developing consumer based features and applications with Python, Django, HTML, Behavior Driven Development (BDD) and pair based programming.
- ❖ Experience in the required XML Schema documents and implemented the framework for parsing XML documents.
- ❖ Modify the existing Python/Django modules to deliver certain format of data.
- ❖ Written Python scripts to parse **JSON documents and load the data in database.**
- ❖ Performed data analysis using Pandas as API to convert data into tabular format
- ❖ Used google API's and created **visualizations such as pie charts, donut charts and displayed in the web application**
- ❖ For the development of the web applications utilized CSS and Bootstrap.
- ❖ To share the information across the applications used pickle/unpickle in python.
- ❖ Utilized Python libraries like Numpy and matplotlib for generating graphical reports.
- ❖ Build SQL queries for performing various **CRUD operations like create, update, read and delete.**
- ❖ Experienced with GIT version control and deployed the project to Heroku.

## TECHNICAL SKILLS

- ❖ Core Libraries worked: Matplotlib | Numpy | Pandas | Scikit Learn | Seaborn
- ❖ Process worked with: DevOps + Agile + V-Model
- ❖ Machine Learning: Logistics Regression, Linear Regression, K-means
- ❖ Analytic/Predictive modeling Tools: Jupyter, Anaconda
- ❖ Visualization Tools: Tableau, Python – Matplotlib
- ❖ ETL: Pyetl
- ❖ Programming Language - Python, SQL, 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, Flask
- ❖ Defect Reporting Tool :- HPALM
- ❖ Web Service :- REST –JSON, DRF (Django Rest Framework)
- ❖ Development Tools :- PyCharm, Notepad ++
- ❖ OS and Networking :- Windows 7, Windows 10, Ubuntu/Linux 18.2
- ❖ Certified Python Programme Professional -CPPP

## WORK EXPERIENCE DETAILS

Currently working as **Python Full Stack Developer** With Fujitsu Global - <https://www.fujitsu.com/> , Pune since June 2019 to till date.

## AWARDS

- Received Rising Star award from Fujitsu for good performances .
- Received appreciation for IOT Payments successful delivery from Client Home Depot, USA

## PROJECTS DETAILS

### [Project Sequence 1](#)

- **Project Name : HR4860 Secure 5G SD-WAN Gateway on Fiber Networks**
- Client : Netcomm Wireless, Australia
- System/Component : Telecom OSS Provisioning & Activation ,CRM
- Technology : Python, Django, Oracle, GIT, SVN, Rest – Web service, Pandas, etl, Statistical Analysis
- Roles : Python Data analyst / Python Django REST web Development

#### **Detail Project Overview and Workflow :**

This Solution is used for the management and orchestration of user virtual and physical network functions to facilitate the adoption of new technologies so user can innovate in service creation. The support provided by Liberty Global OSS for both PNFs and VNFs serves as the foundation of network slicing. Packet traffic on Fiber networks is steadily on the rise and Fiber network operators must meet exacting services while optimizing performance. As a result, more and more telecom operators are ramping up their transoceanic fiber networks to improve reliability, performance and bandwidth availability, making comprehensive testing—across the multiple layers of the network—critical.

Laying out new submarine fiber is several times more expensive than terrestrial deployments. Its troubleshooting, repair and upgrade is likewise costly. Telecom operators face the task of running each fiber at its maximum capacity. Therefore, network

characterization tests, including end-to-end chromatic dispersion (CD) and polarization mode dispersion (PMD), are essential to guarantee high-speed submarine transmission. What's more, validation with a next-gen optical spectrum analyzer (OSA), performed during system commissioning, ensures that a single fiber will contain as many dense wavelength-division multiplexing (DWDM) channels as possible, while operating error-free.

Today's regional and transoceanic network deployments demand powerful, flexible multiservice testing solutions that address SONET/SDH/OTN (up to OC-768/STM-256/OTU3) and Ethernet (10M to 100G) transmissions. Accelerating and simplifying the deployment processes with powerful, intelligent platforms that easily accommodate a variety of optical, transport and datacom modules help overcome these challenges. In addition, capabilities, such as automation, simultaneous and in-service testing, as well as remote management, validate that all the tests performed throughout the lifecycle are accurate, thereby ensuring the cost-efficiency and success for 40G/100G submarine networks.

#### **The main features are**

Support for corporate hierarchies, Order Management automation, Product management and pricing for any business model, One bill for any service, Capture all your revenue, Integrate with ease, Agent support

#### **Task Handled**

- Experience in developing entire frontend and backend modules using Python on Django Web Framework.
- Experience in working at various phases of project such as analysis, design, development, and testing.
- Using Django Framework model, implemented MVC architecture and developed web applications with superb interface.
- Created user interface of website using Python, HTML5, CSS, JSON and JQuery. Used CSS bootstrap framework for developing web application.
- Developed the business logic in views for the URLs created and linked the webpages to functions in views to show the output to the end-user or to store information from the website into the database
- Worked on Django REST framework as it is much faster to read data and it can be cached. REST allows more formats than SOAP and gives better support for browser clients as it supports JSON.
- Written scripts to import data, export data and data modeling.
- Worked on Django ORM API to create and insert data into the tables and access the database.
- Extensive experience in using the python packages such as NumPy, SciPy, Pandas, Beautiful Soap, Pickle and OS.
- Built multifunction readmission reports using python pandas and Django frame work
- 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
- Understand and Analyse Customer requirements and Business logic ,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 2**

- **Project Name :** Analytical Grid & Smart Visualisation
- **Client :** The Home Depot,USA
- **System/Component :** Logistics
- **Technology :** Python, Django, Oracle, GIT, SVN, Rest – Web service, Pandas, etl, Statistical Analysis
- **Roles :** Python Data analyst / Python Django REST web Development

#### **Detail Project Overview and Workflow :**

Grid analytics is a solution for end user to check the availability of product in Warehouse .Market Basket Analysis is a technique that identifies the strength of association between a pair/group of products that are purchased together. In simpler words, it's based on the concept that if a customer buys a product, they are more or less likely to buy another related product. Market Basket Analysis also uses machine learning/deep learning algorithms, like product recommendation engines.

SERP (Search Engine Result Page) analytics help user measure how customer's interact with the search results on user SERP, which gives insight to how customer search engine is functioning. This gives user important data points about where to improve the search experience.

Association rule learning is a machine learning method that is used for discovering associations between products. It does not consider the order of the purchase of products. Product Analytics will show user most popular products and availability along with detailed insight into how often each product is purchased and how much revenue it generates.

user can also see the keyterms shoppers are searching and which product they end up buying, so user can update the product naming to better fit for customers.

#### Task Handled :

- ❖ 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 with respect to ensure functionalities meets customer requirements
- ❖ Extensive experience in using the python packages such as NumPy, SciPy, Pandas, Beautiful Soap, Pickle and OS.
- ❖ Worked on Django REST framework as it is much faster to read data and it can be cached. REST allows more formats than SOAP and gives better support for browser clients as it supports JSON.
- ❖ Created user interface of website using Python, HTML5, CSS, JSON and JQuery. Used CSS bootstrap framework for developing web application.
- ❖ 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 3

- **Project Name** : Integrated IoT –( Internet Of Things ) Payments Terminal
- **Client** : The Home Depot, USA
- **System/Component** : Logistics ,Payment
- **Technology** : Python, Django, Oracle, GIT, SVN, Rest – Web service, Pandas, etl, Statistical Analysis
- **Roles** : Python Data analyst / Python Django REST web Development

#### Detail Project Overview and Workflow:

Payment Analytics refers to integrating and processing payments data from various sources like cards, mobile wallets, and bank transfers. If used efficiently, it can benefit businesses by providing insights into their revenues, payment trends, and customer shopping behavior.

To ease the shopping experience for the consumer, merchants seek to make a frictionless payments experience. The IoT is the driving force in making this happen. For payments, the IoT means that a consumer can pay in almost any way possible. Instead of a card, consumers could pay with their phone, a wearable, a car, or a voice-activated device. For businesses, this means enabling things other than a standard in-store terminal to authorize payments. The IoT extends the connectivity between things without the need for human intervention. The need for payments to be processed automatically applies to both the B2B and B2C worlds. A smart fridge could identify when user make the order. An automated clearing house payment or ACH payment for short, is a form of electronic funds transfer sent from one bank account to another and can be either a credit or a debit. ACH payments are also US-based bank-to-bank transfers that are aggregated and processed in batches through the Automated Clearing House network, run by NACHA. ACH payments can be referred to as direct payments.

#### Task Handled

- ❖ Understand and Analyse Customer requirements and Business logic

- ❖ Built multifunction readmission reports using python pandas and Django frame work
- ❖ Involved in Preparing Low level Design of Application
- ❖ To take part in software and architectural development activities
- ❖ Extensive experience in using the python packages such as NumPy, SciPy, Pandas, Beautiful Soap, Pickle and OS.
- ❖ Worked on Django REST framework as it is much faster to read data and it can be cached. REST allows more formats than SOAP and gives better support for browser clients as it supports JSON.
- ❖ Created user interface of website using Python, HTML5, CSS, JSON and JQuery. Used CSS bootstrap framework for developing web application.
- ❖ 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

**Declaration:-**

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

Date:-

Location: Pune

Regards

Gaurav Anandrao Lokhande