Ankur

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RESUME OBJECTIVE:

Data Scientist with experience in executing data driven solutions to find insights and implement action – oriented solutions to complex business problems. Experience in creating data regression models, data anomaly models and classification models using predictive data modeling and exploratory data analysis, analyzing data by using data visualization tools and delivering trained models to counter business needs.

SKILL SET:

- **Domain** : Data Scientist in BFSI Sector
- **Technology** : Python, Django, Database, Framework Designing
- **Frameworks** : TensorFlow, Scikit-Learn, Keras, Tensorlayer, Pandas, Plotly, Dash, Seaborn, Matplotlib, Numpy

EXPERIENCE AND EXPERTISE:

- Python , Django and Object Oriented Programming.
- Data Visualization using tools like Matplotlib,Dash, plotly, Seaborn.
- Feature Extraction and Data Exploration using tools like Numpy, Pandas and SciPy.
- Machine Learning Modeling using Scikit Learn, TensorFlow, Tensorlayer and Keras.
- Experience with SQL Databases like sybase, MySQL, DB2.
- Version control using GIT Repository, Perforce, Bitbucket.
- API Services using Rest framework in Django.

PROJECT SNAPSHOT:

Tata Consultancy Services, Pune (July 2017 - Present)

- **SME Rating Anomaly detection**   **(November '19 – Present)**
- **Role :** Data Scientist
- **Description :**
    Successfully identified anomalous vendor ratings given by SME's by modeling an isolation forest algorithm from 2 year old financial data.
- **Responsibilities:**
    - Development of **data extraction pipeline** from different sources like SharePoint and Excel and organizing the data in a data frame for further computations.

    - Pre Processing of data by cleaning with Regular Expressions and standardized scaling before feeding

the data to the machine learning model.(**Feature Extraction**)

- ❖ Performing **Exploratory Data Analysis** to get the sense of data and formulize the correct machine learning statement
- ❖ Performing **Anomaly Detection** on the dataset to find anomalous ratings of Vendors using state of the art algorithm **Isolation Forest**.
- ❖ Performing **PCA** on the dataset to visualize multi dimensional dataset on a 2-D space and then using **Bokeh (Python) for interactive visualization** of the anomalous points in the dataset.

- ● **Backend Automation Framework**   (**March '19 – November '19**)
- ● **Role :** Python Developer/Framework designer
- ● **Description :**
    Designed and developed a framework to compare multiple backend sources including **Microservice, files, Database etc.** with each other and draws out inconsistencies and presents it to the user with elaborative reports.
- ● **Responsibilities:**
    - ❖ **Architecture and development** of framework to work as generic implementation to test/compare multiple sources, framework designed as an API.
    - ❖ **Created builtin modules** for framework to ease life of user in order to setup and use framework
    - ❖ **Draws out inconsistencies between sources** using numpy, pandas, python scripts and **develop an explanatory report and send in email to user**
    - ❖ Added **Test Data Generation and swagger blueprinting module** to generate test for sources
    - ❖ Maintained and added enhancement to the framework
    - ❖ Developed **unit test cases and integration test cases,**Deployment and continuous integration using Jenkins and GitHub.**.**

- ● **TSL Messaging Queue(MQ) Automation**   (**November '18 – February'19**)
- ● **Role :** Python Developer
- ● **Description :**
    Project was about to develop an automated **TSL Messaging Queue(MQ)** process using python **MQ APIs,** to flow data to various applications with or without fail.
- ● **Responsibilities:**
    - ❖ Generate a load of data to transfer through the messaging queue at runtime using given configurations.
    - ❖ **Using python MQ APIs** send data to various TSL for multiple application
    - ❖ **developed scripts to check response from messaging queues(MQ)** and consolidate result for all data
    - ❖ Send a report through email to all users and stakeholder to show health of TSL
    - ❖ Testing of tool by developing unit test cases and integration test cases and **promotion of code using Jenkins and Github.**

- ● **Log Parsing And Analytics Too**l   (**December '17 – October '18**)
- ● **Role :** Python/Django Developer
- ● **Description :**
    Successfully **developed log parsing and analysis tool that give insight of prod user's data** and help stakeholder to take actions based on presented figures and charts. **The complete tool was built in a re-usable manner** and implemented for multiple teams.
- ● **Responsibilities:**
    - ❖ **Architecture and development** of a complete tool from **parsing user data to bringing out insight statistics out of data**.
    - ❖ Developed data **sourcing pipelines using python to parse data from raw prod logs and databases**.

- ❖ **Applied statistics on parsed data** to give insight of the data using numpy, pandas
- ❖ Refurbished the numbers and **apply multiple trends to show it to stakeholders**
- ❖ Developed **analytics dashboard using Django** to show complete view of data through charts and data table, for quick glance provided daily trends charts, features to apply analytics on service, tier, server,user level etc
- ❖ Testing of tool by developing **unit test cases and integration test cases.**

- ● **Brain Tumor Detection**   (**December '17 – October '18)**
- ● **Role :** Data Engineering/Model Designing
- ● **Description :**
    As a trainee in TCS, Team of 4 has completed a project on brain tumor detection using MRIs.
- ● **Responsibilities:**
  - ❖ brain tumor detection model through MRIs using unet-CNN, Tensorlayer etc.
  - ❖ collected open source data from Kaggle
  - ❖ applied data engineering to make data more useful using numpy, pandas
  - ❖ developed unet-CNN model using Tensorlayer to predict probability of brain tumor

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ADDITIONAL EXPERIENCE AND AWARDS

- • Awarded 2 times with on-the-Spot Award for proactively taking responsibilities.
- • Awarded with Star of the Month for excellent performance in technical and business skills.
- • Earned Skill Quotient of 96.90 percentile in python on https://www.techgig.com/
- • Two times Awarded for being an Active Learner by TCS BFSI East unit Head.
- • Conducted sessions for colleagues and other teams on python.
- • Awarded with Promising trainee in Morgan Stanley(TCS).

PERSONAL PROJECTS

- • **Stock Analysis Tool** : Tool has developed in **Python 3.6 using dash,plotly and leverage API from yahoo and pandas** to download historical data for tickers,Tool provides analytics ability to user to perform multiple kind of indicator analysis as well self built analysis, Tool is able to provide performance of tickers and user's investment through a interactive charts.
- • **LinkStore (http://linkstore.pythonanywhere.com/):** This is a useful and user-friendly utility to save and fetch link/urls on the go, **utility is designed in Django using powerful tools like ORM, Pagination and JavaScript, Google Oauth Authentication etc.**. Users can add, delete, edit links and can directly access them from application. Data is fetched/saved from/to SQLite database. Code base is located on GitHub and is open for contribution.
- • **Inditeck Blog (https://inditeck.wordpress.com/):** I created this blog to share information related to new technology, new big things, technology news etc on wordpress. I like to explore more on technology and write about, Inditeck is one way to do it.

EDUCATION

Agra, Uttar Pradesh   **Dr. Bhimrao Ambedkar University**   May 2014 – May 2017

- Bachelor Of Computer Application from IIMT Aligarh May 2017.

- Undergraduate Coursework: Operating Systems; Databases; Algorithms; Programming Languages; Computer Architecture; Data Structure