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# SUMMARY

* MS in **Computer Science** from Franklin University.
* **2+** years of experience in **data mining**, **data visualization**, **data processing** and **data modeling** using various **Machine learning algorithms** to deliver insights and action-oriented solutions to complex business problems.
* Experience in application **development**, **design**, **version control,** and **automation testing**.
* Understanding of QA best practices and experience in **Selenium** Automation testing.
* Knowledge of standard industry-specific **Agile** software development lifecycle and tools like **JIRA**.
* Good understanding of object-oriented programming languages.
* Solid understanding of **DevOps** and **CI-CD** practices.
* Experience in **Extraction**, **Transformation** and **Loading** of data from Multiple Sources to Data Warehouse using **SSIS.**
* In depth knowledge in **descriptive statistics**, **regression analysis**, **predictive analytics**, **Hypothesis Testing(t Test, Z test , Anova Test), Sensitivity Testing, Cross Validation, Hyper Parameter Optimization, Regularization.**
* Experience in data visualization using **Power BI ,Tableau,** and different python libraries(**matplotlib**, **Seaborn**, **PLOTLY**).
* In depth understanding of **Hadoop Architecture** including **YARN** and various components such as

**HDFS** Resource Manager, **Node Manager**, **Name Node**, **Data Node**.

* Strong working knowledge with **Python** and database like **SQL Server, Oracle.**
* Administrative experience with Cloud platform like **Google Cloud**.
* Experienced with distributed version control using **GitHub**.
* Knowledge of **Restful Web Service** and **SOAP.**
* Strong work ethics in team or individual to drive product success and process efficiency.

# SKILLS

* **Languages** Python, Java, HTML
* **Database** MS SQL Server,MS Access
* **Statistical Analysis** Hypothesis Testing,T-test,Anova Test, P-Value
* **Machine Learning** Predictive Modelling,Linear Regression, Logistic Regression,

Random Forest, Decision Tree , K Means Clustering, Naïve Bayes.

* **Reporting Tools** Power BI,Tableau
* **Other Tools** Anaconda, Jupyter Notebook, Spyder, Postman, Docker, ETL,

Eclipse, IntelliJ, NetBeans, Postman, Docker, Jira

* **Version Control** Git,Github
* **Software Development** Oops,SDLC
* **Deployment** Google Cloud Platform, Heroku
* **Testing** Espresso, Selenium
* **Version Control** Git, GitHub

# PROFESSIONAL EXPERIENCE

***Franklin University***

*Student Employee (Data Analysis and Visualization)*

*Feb 2020* – *Present, Columbus, OH*

## Web Development

* + Developed a web application using **Python FLASK** to facilitate various administrative modules and publishing Dashboards for visual data analysis by extracting data from the database.

## Web Automation

* + Automated different manual processes (like- monitor Grading, Email responses, verify video contents)using **Selenium Python** bindings.
  + Automated the editing process of a bulk amount of word documents using Python.

## Data Mining

* + Performed ETL operation in SSIS for transforming data into Datawarehouse.
  + Extracted data set related to Faculty Development offerings, programs, and special projects using **SQL** from the university database.
  + Built useable codes in **Python** to automate data collection.

## Data Processing

* + Perform Data Cleaning, features scaling, features engineering using pandas and NumPy packages in python.
  + Performed Initial data investigation and exploratory data analysis to identify patterns and trends.

## Data Visualization

* + Created reports and charts using Python Visualization libraries (**Matplotlib, Seaborn** and

**PLOTLY**) to communicate findings/trends.

* + Provided administrative support by creating dashboards and reports using **Tableau** and

**Power Bi** for visual analytics of data.

## Data Modeling

* + Developed **NLP** model for Categorizing feedback given by students.
  + Preprocessed data using **NLTK** library and implemented **Multinomial Naïve Bayes** Algorithm for classification.

***Wright State University***

*Volunteer Assistance*

*Apr 2019* – *Aug 2019, Dayton, OH*

## Data Modeling

* + Worked under PHD scholars on Projects related to **statistical analysis** on a health care data.
  + Assisted on a fine-grained **sentiment analysis** model on drug review data designated to identify polarity of specific target.

## Data Visualization

* + Assisted on a project to visually classify and grade regions based on their air quality index through the historical air pollution data set.
  + Created documentations using PowerPoints and excel for business communications nd reporting.

# ACADEMIC PROJECTS

***Franklin University, Columbus, Ohio***

**Web App using Restful web services jax-rs**

* + Developed a web application named “**Distributed Gradebook**”
  + Multiple Course can be created and under each course, multiple student can be enrolled using

## Restful web services and glassfish webserver in NetBeans.

* + Deployed the web application in multiple webservers using **Google cloud platform.**

## UI Automation Testing of Android Application

* + Performed User Interface Testing for an Android app named “To-do List” .
  + Utilized **Espresso** testing framework to write UI test cases in **Java** using **Android Studio**.
  + Executed **Unit testing** , **Integration testing** and **exploratory** functional testing

**Credit Card Fault Detection**

* + Implemented different machine learning model like **Random Forest** , **Logistic Regression**, **K Nearest Neighbor** and **Decision Tree** for the Anomaly detection.
  + Applied **Smote** technique to balance the datasets and improve the recall score.

## Flight Price Prediction

* + Created a prediction model using **Random Forest** Machine Learning Algorithm.
  + Achieved 81% model accuracy.

# EDUCATION

## Franklin University | MS Computer Science (GPA :4.0)

Expected Graduation: May 2021, Columbus

## Birla Institute of Technology | Master’s in Nanoscience and Technology

2013 - 2015, Ranchi, India

## C.V Raman College Of Engineering| Btech in Applied Electronics and Instrumentation Engineering.

2007 - 2011, Bhubaneswar, India