Neeraja Debta

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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.
- 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 **Extraction**, **Transformation** and **Loading** of data from Multiple Sources to Data Warehouse using **SSIS.**
- 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.**
- Experience in application **development**, **design**, **version control,** and **automation testing**.
- Knowledge of standard industry-specific **Agile** software development lifecycle and tools like **JIRA**.
- Good understanding of object-oriented programming languages like **Java**
- Solid understanding of **DevOps** and **CI-CD** practices.
- Administrative experience with Cloud platform like **Google Cloud**.
- Experienced with distributed version control using **GitHub**.
- Knowledge of **Restful Web Service** and **SOAP.**
- Understanding of QA best practices and experience in **Selenium** Automation testing.
- 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

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.

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

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