

# Neeraja Debta

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Portfolio: <https://nirjadebta.github.io/Portfolio/>

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## SUMMARY

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- 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.

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## SKILLS

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| • <b>Languages</b>            | Python, Java, HTML   |
| • <b>Database</b>             | MS SQL Server,MS Access  |
| • <b>Statistical Analysis</b> | Hypothesis Testing,T-test,Anova Test, P-Value  |
| • <b>Machine Learning</b>     | Predictive Modelling,Linear Regression, Logistic Regression, Random Forest, Decision Tree , K Means Clustering, Naïve Bayes. |
| • <b>Reporting Tools</b>      | Power BI,Tableau   |
| • <b>Other Tools</b>          | Anaconda, Jupyter Notebook, Spyder, Postman, Docker, ETL, Eclipse, IntelliJ, NetBeans, Postman, Docker, Jira                 |
| • <b>Version Control</b>      | Git,Github   |
| • <b>Software Development</b> | Oops,SDLC  |
| • <b>Deployment</b>           | Google Cloud Platform, Heroku  |
| • <b>Testing</b>              | Espresso, Selenium   |
| • <b>Version Control</b>      | Git, GitHub  |

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## PROFESSIONAL EXPERIENCE

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### *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 and reporting.

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## ACADEMIC PROJECTS

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*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 webserver 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

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## EDUCATION

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**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