# Brajnabh Yadav (B.Tech, CSE) • Current Role – AI/ML Engineer

BTM Layout, 1st Stage **• Previous Role – Software Engineer**

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**SUMMARY & SKILLS**

* Total 1.5 Year’s experience in Product Development in **Agile methodology**. Currently working in JGDTech Pvt. Ltd. as Software Engineer.
* Good understanding of **Machine Learning, Deep Learning** and Statistics Fundamentals with the capability to transform “Raw” data to conform to the assumptions of a Machine/Deep Learning Algorithm.

### Previously worked for 1.7 year in Bigdata in the Retail scale in Real time data processing, creation of Data mart, Warehouse, Reporting Analytical dashboards, Automatic code deployment and Automatic ETL pipelines (DataOps) and Data Analysis.

* Python, Flask, Machine Learning, Deep Learning, Scala, Apache Spark, Hadoop, HDFS, Spark Streaming.

# PROFESSIONAL & PROJECT EXPERIENCE

**Project-1. (From Dec,2020 to Now)**

### Job Role - AI & ML Engineer in JGDTech Pvt. Ltd. Responsibilities-

* + Creating algorithms to extract information from datasets and establishing scalable, efficient automated process for model development, validation, implementation and analysis.
  + Developing metrics and prototype that can be used to gather business decisions and identifying business trends considering future growth and developments.
  + Using Machine learning and statistical model technology for developing and evaluating algorithms for the improvement of

performance, quality and data accuracy.

* + Worked as a part of a team for development of multiple AI solutions which can be used in android application with the help of Application Programming Interface.

**Technology Stack-**

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| **Development Tools-** | **Operational Tools-** | **Development & Scripting-** |
| * Cloud Platform **– Amazon Web Services** * Notebook Interface **– AWS Jupyter Notebook** * Codebase Interface**- IntelliJ** * Database**–NoSQL** | Repo**- Atlassian Bitbucket** Deployment Tool **– Amazon EC2** AWS Tools- **AWS Lambda,**  **Elastic Bean Stalk, S3** | Language **- Python**  Scripting Language **– Shell Scripting**  Format **– JSON** |

* Other Tools - Google Colab, Anaconda, Linux
* Packages- NumPy, SciPy, Scikit-learn, Pandas.
* Statistics/Machine Learning - Statistical analysis, Linear/Logistic Regression, Classification, Decision Tree.
* Computer Vision- YoloV4
* Framework – Flask
* Data Visualization – Matplotlib, Seaborn

### Proficiency-

* Supervised Learning, Unsupervised Learning and Reinforcement Learning.
* Familiar with concept of Linear Regression, Logistic Regression, Decision Trees.
* Familiar with ANN and Back-propagation
* Building, Training, Deploying (ML Models).

**Project-2 (From May, 2019 to Nov, 2020)**

**Job Role - Data Engineer in Bizruntime IT Solution Pvt. Ltd.**

**Responsibilities-**

* + **Capturing data, Validation, Data profiling and formatting the data from Real time and Non-real time scenarios for structured and semi-structured data** and storing into Warehouse.

### Creation of predictive scoring models for customers based on ML Techniques like Decision Tree, Logistic Regression, K-Nearest Neighbours etc using sparkML to provide business solutions on RT/NRT Data captured.

* + **Deduplication of customers to** create Golden Record Database **using NLP algorithms and Ingestion to cosmosDB.**
  + Repository & Branch management**. Environment Integration and Data migration** across multiple environment.

**Technology stack-**

|  |  |  |  |
| --- | --- | --- | --- |
| **Development Tools-** | **Operational Tools-** | **Development & Scripting-** |  |
| * Cloud Platform**–AWS** * Notebook Interface**- Jupyter Notebook** * View Interface- * NoSQL- | Repo**- Azure DevOps Git,GitLab** Deployment Tool**- Azure DevOps** Pipeline, ETL Automation and  Monitoring**- Azure Data Factory** | Language **- PySpark, Scala, Python** Scripting Language **– Shell Scripting** Formats - **JSON,** |

* Data Warehouse **– Azure Synapse Analytics, Delta Lake.**
* Cluster Computing Framework**- Spark, Spark Streaming.**
* Temporary Data Storage- **Hive, Delta Lake.**
* Streaming Data**- Event hub, Logic App, Azure Stream Analytics.**
* Security**- Azure DevOps pipelines, Azure Key Vault.**

### Triggering tool- Function App, Azure Data Factory Triggers, Databricks Job Triggers, cosmos DB.

**Proficiency-**

* Spark distributed framework & Resilient distributed datasets (RDD).
* Familiar with concept of Hadoop, Map reduce, Hive, HDFS.
* Familiar with SQL.
* Serialization, Deserialization, Normalization.
* PySpark and Pandas Data frame.

# EDUCATION & CERTIFICATION

* + Cleared B.Tech in Computer Science from BBDNIIT, Lucknow in 2019.
  + Completed Learning certification for Apache Spark with Scala from Udemy.
  + Completed Machine Learning & Deep Learning Certification from Coursera.
  + Completed Web Development (ANGULAR10) Workshop held at BBDNIIT, Lucknow
  + Completed Android Development (IONIC) Workshop held at BBDNIIT, Lucknow.