

# DINESH PRAMANIK

## Data Scientist

Result-driven IT professional with 5+ years of IT experience. Looking for opportunities in Data Science / Data Analyst that facilitate utilization of my versatile skills to help achieve personal as well as organizational goals.

Excellence in analyzing large simulation datasets combining Python, SQL, and other modelling tools.

Expertise in working on various machine learning models and tools – Linear / Logistic Regression, KNN, K-Means, Random forest, XGBoost, Hyper-parameter Tuning, Scikitlearn, Matplotlib, Seaborn, Power BI, and others.





Skilled in Python, Machine Learning, Deep Learning, Natural Language Processing (NLP) and Computer Vision and have a professional degree in Master of Computer Application (MCA).

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 Pune

 LinkedIn

## EDUCATION

-  **MCA (8.69 CGPA)**
-  **2012 - 2015**
-  National Institute of Science & Technology, Berhampur
-  BPUT, Odisha

## RELEVANT SKILLS

- Python
- Machine Learning
- Deep Learning
- NLP
- Computer Vision
- Image Processing

## TOOLS & TECHNOLOGIES

- OpenCV
- Tensorflow
- Keras
- Flask
- Power BI
- MySQL
- MongoDB

## EXPERIENCE

**NTT Data** *June 2019 - Present*  
Data Scientist

**Wipro Technologies, Pune** *Jan 2016 – June 2019*  
Project Engineer

## KEY PROJECTS:

### Wafer Fault Detection:

- A classification methodology to predict the **Quality of Wafer sensors**. A Wafer is very thin slice of semiconductor material which is used in a various electronics circuits, electronic devices.

#### Key tasks:

- Performed Data validation (Name of the files, Length of Date value in File name, Length of Time value in File name, Number of Columns, Name of the Columns, and their datatype) of Training and Testing files.
- Performed Data insertion in Database and exported as a CSV file to be used for model training.
- Responsible for Data Cleaning, Data Preprocessing, Data Clustering and Feature Engineering.
- Built Machine Learning Models: Random Forest and XGBoost.
- Deployed the model to the Pivotal Cloud Foundry platform.

**Skills employed:** Python, Pandas, Numpy, SQL, Sklearn, EDA, Machine Learning, Flask

## Hand Detection in Shredder machine:

- Shredder machine is used to crush the materials like paper, plastic, metals etc. If the hand crosses the **safety limit**, it causes severe injury to hand and may lead to death in some cases. So in this project, main aim is to **Detect the hand** crossing the safety limit of the Shredder machine. Whenever it crosses the safety limit, it generates an alarm and turn off the machine immediately, so that **major accident can be avoided**.

### Key tasks:

- Involved in understanding the business problem, Data collection, Model building and retraining the model.
- Object detection using SSD which detects hand / gloved hand.

**Output:** List of bounding boxes around each detected hand, distance line between hand and safety limit.

**Skills employed:** Python, Deep learning, CV2, SSD object detection

## Customer Churn prediction:

- Churn modeling problem (any individual customer will leave the bank or stay). Current responsibilities include understanding business problem, implementation the strategies and delivery of product while engaging the Lead through constant feedback.

### Key tasks:

- Involved in Data Cleaning, Data Preprocessing and Feature engineering techniques for making the data useful to create Machine learning models.
- Involved in creating various classification models such as Logistic Regression, SVM, Random Forest, XGBoost
- Built Machine learning models: Decision Trees, Random Forest, KNN, SVM
- Built Deep learning model (Artificial Neural Network) using Keras.

**Skills employed:** Python, Pandas, Numpy, Scipy, Sklearn, Matplotlib, Seaborn, EDA, Machine Learning, ANN

## TRAINING AND CERTIFICATIONS

- Python with Data Science Certification from Technogeeks, Pune
- Data Scientist with Python, DataCamp
- Microsoft Azure Foundational course in Machine Learning
- Machine Learning with Python, Data Analysis with Python, Python for Data Science by IBM, Coursera
- Deep Learning A-Z: Hands on Artificial Neural Network, Udemy

## PERSONAL DETAILS

<b>Date of Birth</b>	: 16 <sup>th</sup> Oct 1989
<b>Nationality</b>	: Indian
<b>Marital Status</b>	: Married
<b>Languages Known</b>	: Hindi, English, Bengali
<b>City</b>	: Pune, Maharashtra (India)

## DECLARATION

I do hereby declare that the above information is true to the best of my knowledge.

**Dinesh Pramanik**

**Place:** Pune

**Date:**